Handbook of Labor Statistics

U.S. Department of Labor
Bureau of Labor Statistics
August 1989

Bulletin 2340

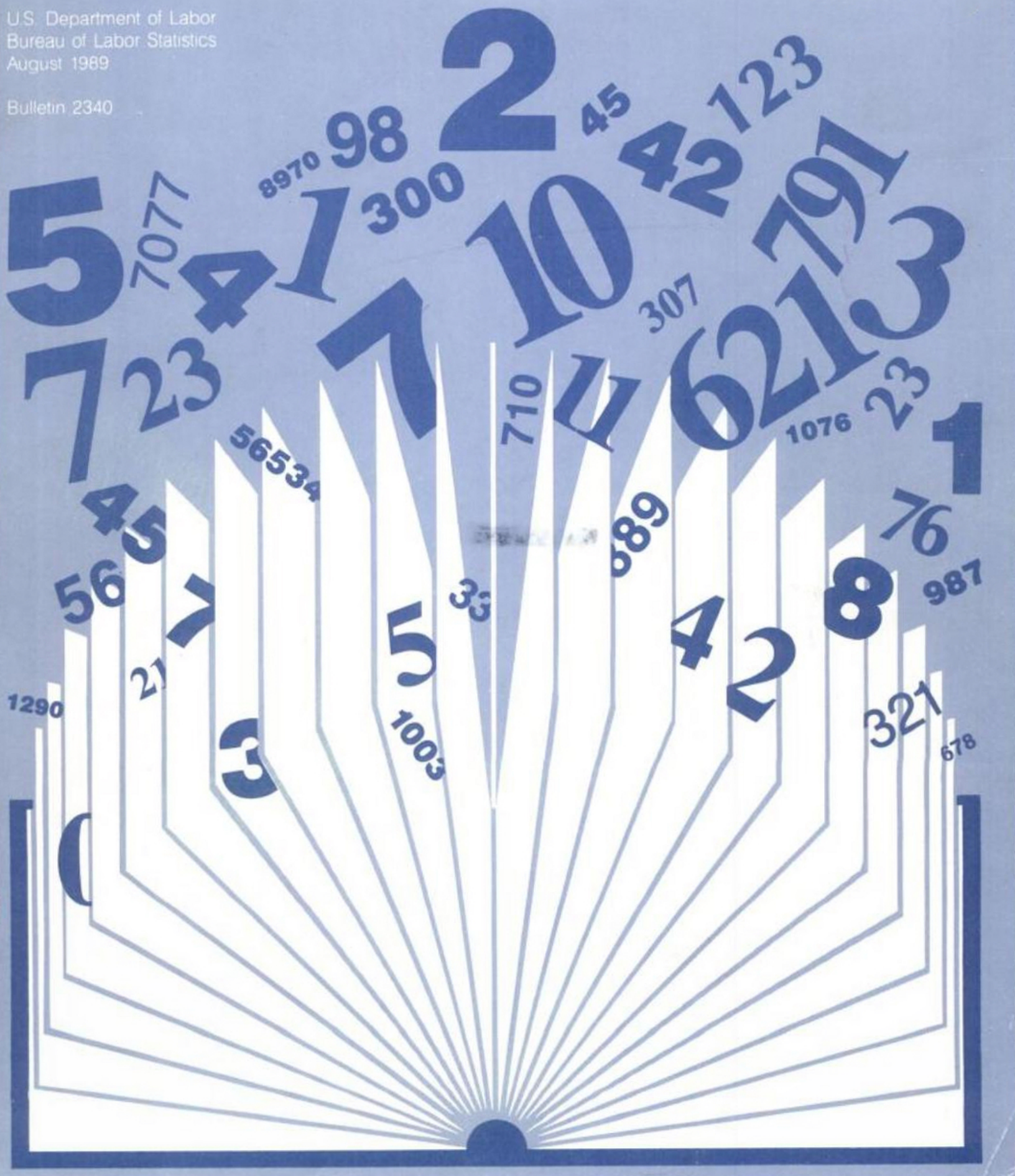


Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88

(Numbers in thousands)

Occupation	1983				1984			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Total, 16 years and over	100,834	43.7	9.3	5.3	105,005	43.7	9.6	5.4
Managerial and professional specialty	23,592	40.9	5.6	2.6	24,858	41.6	5.7	2.7
Executive, administrative, and managerial	10,772	32.4	4.7	2.8	11,571	33.6	5.0	3.1
Officials and administrators, public administration	417	38.5	8.3	3.8	430	39.8	9.7	3.3
Financial managers	357	38.6	3.5	3.1	354	36.8	2.8	3.1
Personnel and labor relations managers	106	43.9	4.9	2.6	109	46.3	4.6	3.2
Purchasing managers	82	23.6	5.1	1.4	86	22.6	1.8	2.7
Managers, marketing, advertising, and public relations	396	21.8	2.7	1.7	365	22.9	2.8	2.1
Administrators, education and related fields	415	41.4	11.3	2.4	438	43.8	10.7	2.2
Managers, medicine and health	91	57.0	5.0	2.0	96	61.2	6.4	1.9
Managers, properties and real estate	305	42.8	5.5	5.2	329	41.3	4.0	5.2
Management-related occupations	2,966	40.3	5.8	3.5	3,228	42.8	6.3	3.2
Accountants and auditors	1,105	38.7	5.5	3.3	1,234	40.9	5.5	2.9
Underwriters and other financial officers	541	41.5	5.0	4.1	589	47.8	5.4	2.9
Management analysts	134	29.5	5.3	1.7	126	28.6	4.0	1.9
Personnel, training, and labor relations specialists	325	52.3	11.9	2.9	331	55.5	11.7	4.0
Buyers, wholesale and retail trade, except farm products	191	47.2	2.5	5.8	204	42.2	3.1	3.8
Inspectors and compliance officers, except construction	150	23.1	11.4	4.1	166	22.0	12.2	3.4
Professional specialty	12,820	48.1	6.4	2.5	13,286	48.5	6.3	2.5
Architects	103	12.7	1.6	1.5	107	10.8	2.4	3.6
Engineers	1,572	5.8	2.7	2.2	1,627	6.2	2.6	2.2
Aerospace engineers	80	6.9	1.5	2.1	80	3.3	4.2	1.6
Chemical engineers	67	6.1	3.0	1.4	56	8.9	2.2	1.5
Civil engineers	211	4.0	1.9	3.2	223	6.1	1.0	2.9
Electrical and electronic engineers	450	6.1	3.4	3.1	491	7.1	4.0	2.4
Industrial engineers	210	11.0	3.3	2.4	192	9.3	2.4	1.8
Mechanical engineers	259	2.8	3.2	1.1	268	4.9	2.2	1.5
Mathematical and computer scientists	463	29.6	5.4	2.6	501	30.7	5.4	2.3
Computer systems analysts and scientists	276	27.8	6.2	2.7	310	30.0	5.3	1.8
Operations and systems researchers and analysts	142	31.3	4.9	2.2	140	31.1	5.3	3.3
Natural scientists	357	20.5	2.6	2.1	360	20.1	3.2	2.2
Chemists, except biochemists	98	23.3	4.3	1.2	101	23.4	6.3	2.4
Biological and life scientists	55	40.8	2.4	1.8	60	31.0	3.4	3.1
Health diagnosing occupations	735	13.3	2.7	3.3	775	13.4	3.8	3.7
Physicians	519	15.8	3.2	4.5	520	16.0	5.0	5.1
Dentists	126	6.7	2.4	1.0	138	6.2	.9	1.2
Health assessment and treating occupations	1,900	85.8	7.1	2.2	1,929	86.4	7.1	2.1
Registered nurses	1,372	95.8	6.7	1.8	1,402	96.0	7.6	1.8
Pharmacists	158	26.7	3.8	2.6	162	28.5	2.9	1.9
Dietitians	71	90.8	21.0	3.7	70	95.1	16.1	1.4
Therapists	247	76.3	7.6	2.7	251	76.8	5.4	3.5
Inhalation therapists	69	69.4	6.5	3.7	67	68.7	7.4	4.4
Physical therapists	55	77.0	9.7	1.5	68	76.7	3.9	5.8
Speech therapists	51	90.5	1.5	(1)	51	90.0	2.9	.1
Teachers, college and university	606	36.3	4.4	1.8	619	36.6	4.7	1.8
Teachers, except college and university	3,365	70.9	9.1	2.7	3,441	72.1	8.8	2.5
Prekindergarten and kindergarten	299	98.2	11.8	3.4	330	98.9	12.0	3.4
Elementary school	1,350	83.3	11.1	3.1	1,322	84.6	9.9	2.5
Secondary school	1,209	51.8	7.2	2.3	1,203	51.2	7.7	2.5
Special education	81	82.2	10.2	2.3	182	84.9	11.9	1.6
Teachers, n.e.c.	425	64.5	5.7	2.0	404	65.8	4.4	2.4
Counselors, educational and vocational	184	53.1	13.9	3.2	192	54.2	12.2	3.1
Librarians, archivists, and curators	213	84.4	7.8	1.6	223	83.6	7.4	1.9
Librarians	193	87.3	7.9	1.8	210	85.9	7.6	1.8
Social scientists and urban planners	261	46.8	7.1	2.1	278	46.6	7.0	2.6
Economists	98	37.9	6.3	2.7	110	39.6	4.8	2.8
Psychologists	135	57.1	8.6	1.1	137	54.8	9.4	2.4
Social, recreation, and religious workers	831	43.1	12.1	3.8	846	44.4	12.1	3.1
Social workers	407	64.3	18.2	6.3	428	64.1	18.3	5.0
Recreation workers	65	71.9	15.7	2.0	63	72.1	10.2	2.2
Clergy	293	5.6	4.9	1.4	290	6.3	5.3	1.0
Religious workers, n.e.c.	66	50.9	2.5	.4	66	57.5	4.0	1.2
Lawyers and judges	651	15.8	2.7	1.0	678	16.2	2.6	1.7
Lawyers	612	15.3	2.6	.9	646	16.1	2.3	1.6

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1983				1984			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Professional specialty—Continued								
Writers, artists, entertainers, and athletes	1,544	42.7	4.8	2.9	1,685	42.5	4.6	2.6
Authors	62	46.7	2.1	.9	71	49.4	1.1	.7
Designers	393	52.7	3.1	2.7	448	52.0	3.2	2.1
Musicians and composers	155	28.0	7.9	4.4	161	27.6	6.4	2.7
Painters, sculptors, craft-artists, and artist printmakers	186	47.4	2.1	2.3	212	47.4	2.4	3.1
Photographers	113	20.7	4.0	3.4	123	20.2	8.5	3.2
Editors and reporters	204	48.4	2.9	2.1	218	46.2	3.2	1.4
Public relations specialists	157	50.1	6.2	1.9	153	48.6	6.1	2.3
Athletes	58	17.6	9.4	1.7	60	18.1	5.0	2.2
Technical, sales, and administrative support	31,265	64.6	7.6	4.3	32,476	64.4	8.0	4.5
Technicians and related support	3,053	48.2	8.2	3.1	3,172	48.1	8.3	3.8
Health technologists and technicians	1,111	84.3	12.7	3.1	1,112	83.4	13.1	3.7
Clinical laboratory technologists and technicians	255	76.2	10.5	2.9	281	75.6	12.8	4.4
Dental hygienists	66	98.6	1.6	(1)	62	99.0	2.6	.2
Radiologic technicians	101	71.7	8.6	4.5	110	66.9	7.4	3.5
Licensed practical nurses	443	97.0	17.7	3.1	416	96.3	17.1	4.1
Engineering and related technologists and technicians	822	18.4	6.1	3.5	860	18.3	5.0	4.9
Electrical and electronic technicians	260	12.5	8.2	4.6	273	13.8	5.9	5.2
Drafting occupations	273	17.5	5.5	2.3	305	15.4	3.7	5.4
Science technicians	202	29.1	6.6	2.8	200	35.4	9.4	3.1
Biological technicians	52	37.7	2.9	2.0	55	46.4	4.1	3.2
Chemical technicians	82	26.9	9.5	3.5	72	26.9	14.4	1.9
Technicians, except health, engineering, and science	917	35.3	5.0	2.7	1,001	37.1	5.5	2.9
Airplane pilots and navigators	69	2.1	(1)	1.6	75	2.1	.2	(1)
Computer programmers	443	32.5	4.4	2.1	507	35.4	5.3	2.7
Legal assistants	128	74.0	4.3	3.6	137	73.9	5.1	5.8
Sales occupations	11,818	47.5	4.7	3.7	12,582	47.9	5.0	4.0
Supervisors and proprietors	2,958	28.4	3.6	3.4	3,220	29.7	3.3	3.7
Sales representatives, finance and business services	1,853	37.2	2.7	2.2	1,992	38.4	3.2	2.3
Insurance sales	551	25.1	3.8	2.5	551	25.5	5.4	2.4
Real estate sales	570	48.4	1.3	1.5	626	48.2	1.5	2.2
Securities and financial services sales	212	23.6	3.1	1.1	237	23.9	2.6	.5
Advertising and related sales	124	47.9	4.5	3.3	129	47.1	4.2	2.4
Sales occupations, other business services	396	41.0	2.4	2.9	448	45.6	2.7	3.3
Sales representatives, commodities, except retail	1,442	15.1	2.1	2.2	1,473	16.7	1.8	2.7
Sales workers, retail and personal services	5,511	69.7	6.7	4.8	5,843	69.0	7.3	5.1
Sales workers, motor vehicles and boats	230	6.4	3.2	3.0	259	9.0	4.6	3.6
Sales workers, apparel	451	83.2	8.1	6.0	440	83.0	6.6	5.3
Sales workers, shoes	117	65.4	5.0	7.3	126	63.9	8.9	9.4
Sales workers, furniture and home furnishings	140	49.8	2.7	4.8	156	49.4	5.0	5.9
Sales workers, radio, television, hi-fi, and appliances	124	30.4	5.0	6.2	164	26.4	2.6	2.9
Sales workers, hardware and building supplies	189	22.7	2.5	3.6	209	23.1	2.8	4.7
Sales workers, parts	149	10.9	1.8	6.2	156	9.8	3.0	4.7
Sales workers, other commodities	1,441	74.1	4.5	4.0	1,477	74.7	5.7	4.2
Sales counter clerks	140	70.1	7.8	4.3	131	70.8	7.9	4.3
Cashiers	2,009	84.4	10.1	5.4	2,193	83.8	10.7	6.0
Street and door-to-door sales workers	378	81.0	4.4	3.4	392	78.4	4.1	4.8
News vendors	143	27.4	5.8	2.9	138	27.9	5.5	2.6
Sales-related occupations	54	58.7	2.8	1.3	54	64.1	1.6	3.4
Administrative support, including clerical	16,395	79.9	9.6	5.0	16,722	79.9	10.2	5.0
Supervisors	676	53.4	9.3	5.0	647	52.9	11.5	3.8
General office	382	65.7	10.5	4.9	375	64.8	11.7	3.7
Financial records processing	93	62.2	5.8	5.1	81	65.8	7.1	2.9
Supervisors, distribution, scheduling, and adjusting clerks	156	22.7	8.9	5.3	149	22.2	15.1	4.6
Computer equipment operators	605	63.9	12.5	6.0	718	64.7	12.8	6.0
Computer operators	597	63.7	12.1	6.0	713	64.7	12.7	6.1
Secretaries, stenographers, and typists	4,861	98.2	7.3	4.5	4,877	97.7	7.9	4.5
Secretaries	3,891	99.0	5.8	4.0	3,935	98.3	6.1	4.2
Typists	906	95.6	13.8	6.4	885	95.7	16.1	5.8
Information clerks	1,174	88.9	8.5	5.5	1,250	88.9	8.3	5.4
Interviewers	184	88.0	9.7	4.6	181	86.2	10.7	6.3
Hotel clerks	64	68.6	6.7	3.2	74	71.4	7.6	5.3
Transportation ticket and reservation agents	98	64.7	10.3	5.7	97	59.9	9.5	4.5
Receptionists	602	96.8	7.5	6.6	665	96.9	7.6	5.6

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1983				1984			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Administrative support, including clerical—Continued								
Records processing occupations, except financial	866	82.4	13.9	4.8	847	82.1	13.4	5.5
Order clerks	188	78.1	10.6	4.4	185	79.0	11.4	5.2
Personnel clerks, except payroll and timekeeping	64	91.1	14.9	4.6	64	90.6	16.3	6.9
Library clerks	147	81.9	15.4	2.5	130	82.3	7.1	5.5
File clerks	287	83.5	16.7	6.1	298	82.6	18.4	6.5
Records clerks	157	82.8	11.6	5.6	146	81.7	10.7	3.8
Financial records processing	2,457	89.4	4.6	3.7	2,452	90.0	4.9	3.5
Bookkeepers, accounting, and auditing clerks	1,970	91.0	4.3	3.3	2,010	91.2	4.3	3.3
Payroll and timekeeping clerks	192	82.2	5.9	5.0	176	84.8	7.8	3.1
Billing clerks	146	88.4	6.2	3.9	146	87.2	8.2	3.3
Cost and rate clerks	96	75.6	5.9	5.3	81	78.1	4.4	5.7
Duplicating, mail and other office machine operators	68	62.6	16.0	6.1	72	69.8	15.9	7.2
Communications equipment operators	256	89.1	17.0	4.4	234	92.0	17.7	4.6
Telephone operators	244	90.4	17.0	4.3	226	92.8	17.6	4.5
Mail and message distributing occupations	799	31.6	18.1	4.5	800	31.6	19.1	4.6
Postal clerks, except mail carriers	248	36.7	26.2	5.2	257	36.0	23.9	4.5
Mail carriers, postal service	259	17.1	12.5	2.7	249	17.1	15.1	3.0
Mail clerks, except postal service	170	50.0	15.8	5.9	175	51.1	18.0	5.5
Messengers	122	26.2	16.7	5.2	120	23.8	18.5	6.8
Material recording, scheduling, and distributing clerks	1,562	37.5	10.9	6.6	1,608	38.5	11.8	6.4
Dispatchers	157	45.7	11.4	4.3	164	44.1	11.6	3.1
Production coordinators	182	44.0	6.1	2.2	193	48.5	6.3	3.5
Traffic, shipping, and receiving clerks	421	22.6	9.1	11.1	447	25.2	13.7	8.9
Stock and inventory clerks	532	38.7	13.3	5.5	536	37.9	12.0	6.7
Weighers, measurers, and checkers	79	47.2	16.9	5.8	69	47.3	9.3	6.4
Expediters	112	57.5	8.4	4.3	120	59.9	11.6	4.3
Adjusters and investigators	675	69.9	11.1	5.1	685	70.6	13.4	5.3
Insurance adjusters, examiners, and investigators	199	65.0	11.5	3.3	206	64.1	12.3	3.4
Investigators and adjusters, except insurance	301	70.1	11.3	4.8	315	72.2	13.7	4.6
Eligibility clerks, social welfare	69	88.7	12.9	9.4	71	89.5	18.6	10.4
Bill and account collectors	106	66.4	8.5	6.5	93	65.1	10.9	7.8
Miscellaneous administrative support	2,397	85.2	12.5	5.9	2,531	85.1	12.8	6.6
General office clerks	648	80.6	12.7	5.2	664	80.9	12.3	6.5
Bank tellers	480	91.0	7.5	4.3	482	91.4	7.9	6.4
Data entry keyers	311	93.6	18.6	5.6	351	91.3	20.7	5.7
Statistical clerks	96	75.7	7.5	3.4	95	75.4	10.6	6.0
Teachers' aides	348	93.7	17.8	12.6	345	93.0	18.7	12.1
Service occupations	13,857	60.1	16.6	6.8	14,151	60.8	17.5	7.1
Private household	980	96.1	27.8	8.5	993	96.2	30.3	9.3
Child care workers	408	96.9	7.9	3.6	383	97.4	9.5	5.8
Cleaners and servants	512	95.8	42.4	11.8	544	95.2	43.5	11.4
Protective service	1,672	12.8	13.6	4.6	1,678	12.9	15.0	4.4
Supervisors, protective service	127	4.7	7.7	3.1	135	5.9	12.0	3.4
Supervisors, police and detectives	58	4.2	9.3	1.2	65	6.0	10.2	3.2
Firefighting and fire prevention	189	1.0	6.7	4.1	185	.7	5.3	2.8
Firefighting occupations	170	1.0	7.3	3.8	168	.1	5.0	2.8
Police and detectives	645	9.4	13.1	4.0	671	10.8	15.4	4.4
Police and detectives, public service	412	5.7	9.5	4.4	422	7.7	11.6	4.8
Sheriffs, bailiffs, and other law enforcement officers	87	13.2	11.5	4.0	83	13.1	12.5	5.2
Correctional institution officers	146	17.8	24.0	2.8	167	17.6	26.3	3.0
Guards	711	20.6	17.0	5.6	687	19.7	17.9	4.9
Guards and police, except public service	602	13.0	18.9	6.2	603	13.9	19.2	5.3
Service occupations, except private household and protective service	11,205	64.0	16.0	6.9	11,481	64.8	16.8	7.3
Food preparation and service occupations	4,860	63.3	10.5	6.8	4,989	64.0	12.0	7.1
Supervisors	239	63.5	10.6	5.0	259	66.7	14.1	5.7
Bartenders	338	48.4	2.7	4.4	340	48.9	2.5	3.8
Waiters and waitresses	1,357	87.8	4.1	3.6	1,380	86.3	4.9	4.7
Cooks, except short order	1,359	50.8	16.0	6.8	1,412	52.0	18.0	8.0
Short-order cooks	93	38.5	12.9	2.4	95	37.7	18.4	3.3
Food counter, fountain, and related occupations	326	76.0	9.1	6.7	367	79.3	10.7	6.8
Kitchen workers, food preparation	138	77.0	13.7	8.1	147	73.7	18.5	10.5
Waiters' and waitresses' assistants	364	38.8	12.6	14.2	344	40.8	11.4	11.2
Miscellaneous food preparation	646	54.0	15.1	11.6	644	55.0	16.6	10.5

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1983				1984			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Service occupations, except private household and protective service—Continued								
Health service occupations	1,739	89.2	23.5	4.8	1,746	90.3	24.2	5.0
Dental assistants	154	98.1	6.1	5.7	170	98.2	4.4	4.9
Health aides, except nursing	316	86.8	16.5	4.8	341	86.4	16.8	5.3
Nursing aides, orderlies, and attendants	1,269	88.7	27.3	4.7	1,235	90.4	29.0	4.9
Cleaning and building service occupations	2,736	38.8	24.4	9.2	2,802	39.0	24.4	9.6
Supervisors	124	38.4	26.3	6.6	127	38.0	22.4	6.6
Maids and housemen	531	81.2	32.3	10.1	550	82.5	32.2	11.7
Janitors and cleaners	2,031	28.6	22.6	8.9	2,074	28.3	22.7	9.3
Personal service occupations	1,870	79.2	11.1	6.0	1,943	80.8	11.5	6.2
Barbers	92	12.9	8.4	12.1	100	19.2	10.1	11.6
Hairdressers and cosmetologists	622	88.7	7.0	5.7	656	89.8	7.5	6.4
Attendants, amusement and recreation facilities	131	40.2	7.1	4.3	118	44.5	9.1	3.8
Public transportation attendants	63	74.3	11.3	5.9	69	84.8	10.8	7.0
Welfare service aides	77	92.5	24.2	10.5	80	93.7	29.1	10.2
Child care workers	633	96.8	12.6	5.2	677	95.2	12.5	5.3
Precision production, craft, and repair	12,328	8.1	6.8	6.2	13,057	8.5	7.2	6.2
Mechanics and repairers	4,158	3.0	6.8	5.3	4,376	3.0	7.0	5.6
Supervisors	252	7.0	3.7	3.3	256	8.8	4.1	3.4
Mechanics and repairers, except supervisors	3,906	2.8	7.0	5.5	4,119	2.7	7.2	5.8
Vehicle and mobile equipment mechanics and repairers	1,683	.8	6.9	6.0	1,784	.9	6.5	6.4
Automobile mechanics	800	.5	7.8	6.0	866	.8	8.1	6.7
Bus, truck, and stationery engine mechanics	299	.6	6.5	5.7	346	.6	5.7	5.7
Aircraft engine mechanics	95	2.5	4.0	7.6	88	2.4	4.3	10.9
Small engine repairers	63	.1	5.4	3.4	68	.6	2.2	2.2
Automobile body and related repairers	199	.7	6.5	6.8	205	2.1	4.4	5.4
Heavy equipment mechanics	162	.7	5.4	4.9	163	.2	4.9	5.9
Industrial machinery repairers	529	2.2	6.0	4.9	550	2.7	8.0	5.9
Electrical and electronic equipment repairers	674	7.4	7.3	4.5	686	5.8	7.3	4.7
Electronic repairers, communications, and industrial equipment	158	5.3	8.0	6.1	159	3.1	9.4	3.9
Data processing equipment repairers	98	9.3	6.1	4.5	107	9.4	4.7	3.8
Telephone line installers and repairers	59	5.6	5.8	4.6	62	2.9	5.9	3.0
Telephone installers and repairers	247	9.9	7.8	3.7	235	8.2	6.8	6.3
Heating, air conditioning, and refrigeration mechanics	200	.5	6.0	5.3	241	1.3	6.7	4.7
Miscellaneous mechanics and repairers	792	4.0	7.5	5.4	829	4.1	8.0	5.5
Office machine repairers	66	3.3	9.3	3.9	59	3.6	13.4	2.3
Millwrights	94	1.0	6.4	2.4	90	2.1	6.9	5.0
Construction trades	4,289	1.8	6.6	6.0	4,573	1.7	6.9	5.7
Supervisors	504	1.3	3.2	4.6	560	1.3	3.0	3.9
Construction trades, except supervisors	3,784	1.9	7.1	6.1	4,013	1.8	7.5	6.0
Brickmasons and stonemasons	156	.3	12.2	9.2	177	.3	15.0	8.0
Carpet installers	88	2.0	3.4	8.6	99	1.4	7.3	4.8
Carpenters	1,160	1.4	5.0	5.0	1,280	1.3	5.5	5.2
Drywall installers	95	1.4	3.8	8.6	111	1.8	9.4	5.7
Electricians	602	1.5	6.2	3.3	626	1.2	6.1	3.5
Electrical power installers and repairers	106	.2	12.0	1.7	110	.3	8.0	3.2
Painters, construction and maintenance	473	4.9	8.7	8.8	465	5.3	8.3	8.0
Plumbers, pipefitters, and steamfitters	443	1.1	7.9	4.7	460	1.1	6.4	5.4
Concrete and terrazzo finishers	64	(1)	23.0	22.3	74	.8	29.3	19.0
Insulation workers	56	4.8	5.8	11.3	54	.3	6.8	7.3
Roofers	133	.1	7.4	7.8	178	.7	9.1	7.8
Structural metal workers	63	1.2	3.9	3.2	56	.4	5.6	4.7
Extractive occupations	196	2.3	3.3	6.0	199	2.1	3.8	5.7
Precision production occupations	3,685	21.5	7.3	7.4	3,909	22.9	7.9	7.4
Supervisors	1,210	14.1	6.6	5.7	1,300	14.7	7.2	5.4
Precision metalworking	892	5.5	6.2	6.3	918	6.0	5.4	6.3
Tool and die makers	148	1.2	2.1	2.9	135	1.8	3.8	3.0
Machinists	471	4.1	7.3	7.7	514	4.9	6.5	6.4
Sheet-metal workers	127	4.5	5.1	4.6	124	4.3	2.8	8.5
Precision woodworking	86	16.7	3.3	9.7	106	15.9	5.4	7.4
Precision textile, apparel, and furnishings machine workers	260	58.9	7.9	12.7	255	56.3	9.8	13.5
Dressmakers	111	96.1	8.9	7.9	110	93.8	8.2	8.3
Upholsterers	67	26.2	6.9	17.7	71	23.6	8.2	14.0
Precision workers, assorted materials	452	56.9	7.5	10.4	571	60.1	10.4	11.8
Optical goods workers	56	41.5	2.9	3.5	58	49.6	4.1	4.2
Dental laboratory and medical appliance technicians	50	41.1	5.5	7.3	51	31.3	6.7	5.5
Electrical and electronic equipment assemblers	246	74.2	10.8	13.2	360	73.3	13.0	15.0

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1983				1984			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Precision production, craft, and repair—Continued								
Precision food production occupations	408	25.5	11.1	9.6	407	27.0	11.6	9.1
Butchers and meat cutters	276	15.6	13.5	9.2	264	16.8	14.4	8.5
Bakers	105	44.4	6.7	9.9	107	43.4	6.3	7.8
Precision inspectors, testers, and related workers	130	25.6	8.8	6.3	124	24.9	8.2	5.4
Inspectors, testers, and graders	121	24.6	8.7	6.2	112	24.2	8.6	5.1
Plant and system operators	247	3.4	7.8	4.5	229	2.6	8.3	4.5
Stationary engineers	119	2.1	7.8	4.1	106	1.4	7.3	2.6
Operators, fabricators, and laborers	16,091	26.6	14.0	8.3	16,864	26.0	14.3	8.3
Machine operators, assemblers, and inspectors	7,744	42.1	14.0	9.4	7,984	41.1	14.2	9.5
Machine operators and tenders, except precision	5,235	43.1	15.0	9.8	5,284	42.8	15.1	10.2
Metalworking and plastic working machine operators	499	16.6	11.4	6.7	503	17.4	11.0	7.0
Lathe and turning machine operators	78	9.2	10.0	6.1	81	12.9	7.2	6.0
Punching and stamping press machine operators	114	33.0	14.3	4.3	129	27.2	13.0	6.2
Grinding, abrading, buffing, and polishing machine operators	151	14.0	12.9	11.2	144	14.3	12.9	8.6
Metal and plastic processing machine operators	172	23.0	13.1	12.2	161	28.1	12.2	10.7
Molding and casing machine operators	102	30.9	12.5	13.0	100	39.2	11.8	10.3
Woodworking machine operators	145	11.9	11.2	7.9	145	11.2	11.5	5.1
Sawing machine operators	95	7.7	12.1	7.4	93	7.1	9.4	5.7
Printing machine operators	459	25.6	7.0	4.7	450	27.4	6.4	5.6
Printing machine operators	306	13.8	8.7	5.5	301	16.9	7.6	6.8
Typesetters and compositors	76	64.1	1.9	2.1	73	67.4	2.3	.3
Textile, apparel, and furnishings machine operators	1,414	82.1	18.7	12.5	1,401	81.3	19.5	13.1
Winding and twisting machine operators	97	75.2	38.2	2.5	96	77.8	36.2	1.3
Textile sewing machine operators	806	94.0	15.5	14.5	802	93.2	16.4	16.3
Pressing machine operators	141	66.4	27.1	14.2	133	66.3	30.6	13.0
Laundering and dry cleaning machine operators	164	64.7	21.0	12.9	179	63.0	20.5	12.8
Machine operators, assorted materials	2,517	32.8	15.3	9.9	2,597	32.2	15.4	10.4
Packaging and filling machine operators	396	63.1	17.6	14.7	407	58.7	18.3	14.4
Mixing and blending machine operators	113	7.6	19.0	8.0	106	6.5	14.2	10.0
Separating, filtering, and clarifying machine operators	62	5.4	12.0	2.7	67	5.5	13.0	3.7
Painting and paint spraying machine operators	185	13.6	12.4	11.0	189	14.7	10.9	10.9
Furnace, kiln, and oven operators, except food	108	3.5	14.5	4.9	109	3.4	18.8	4.3
Slicing and cutting machine operators	195	23.3	15.9	14.9	183	28.3	15.0	13.7
Photographic process machine operators	93	52.4	8.4	6.4	87	51.3	9.6	10.7
Fabricators, assemblers, and hand working occupations	1,715	33.7	11.3	8.7	1,823	31.9	12.3	8.6
Welders and cutters	543	5.0	8.3	8.6	570	4.7	8.9	8.4
Assemblers	953	46.4	13.5	8.9	1,052	43.8	14.6	8.9
Production inspectors, testers, samplers, and weighers	794	53.8	13.0	7.7	877	50.3	12.5	6.9
Production inspectors, checkers, and examiners	624	54.9	13.4	6.6	695	51.1	12.8	5.6
Production testers	58	37.4	8.0	3.8	64	30.7	10.8	3.8
Graders and sorters, except agricultural	103	58.6	13.5	16.5	106	59.6	12.9	17.2
Transportation and material moving occupations	4,201	7.8	13.0	5.9	4,467	8.3	14.0	5.7
Motor vehicle operators	2,978	9.2	13.5	6.0	3,213	9.6	14.7	5.8
Truckdrivers, heavy	1,771	2.1	12.8	5.1	1,876	2.6	13.6	5.3
Truckdrivers, light	424	7.6	10.4	8.3	497	9.5	12.9	7.7
Drivers-sales workers	200	7.6	5.2	3.6	216	5.8	7.2	4.4
Bus drivers	365	45.5	22.2	7.0	398	44.3	23.5	5.9
Taxi-cab drivers and chauffeurs	148	10.4	19.6	8.6	154	8.7	21.8	6.5
Transportation occupations, except motor vehicles	212	2.4	6.7	3.0	206	1.6	7.3	2.0
Rail transportation occupations	154	2.0	7.8	3.1	153	.5	8.2	1.7
Locomotive operating occupations	64	2.3	8.5	1.7	62	.7	10.3	1.5
Water transportation occupations	58	3.5	3.7	2.9	53	4.7	4.9	2.9
Material moving equipment operators	1,011	4.8	12.9	6.3	1,049	5.6	12.9	6.1
Operating engineers	145	.4	6.8	3.8	145	1.2	8.2	5.0
Crane and tower operators	93	1.3	15.6	2.6	96	2.4	14.0	4.8
Excavating and loading machine operators	98	1.2	5.9	6.2	90	.8	6.3	3.5
Grader, dozer, and scraper operators	112	.2	7.7	4.9	117	1.6	6.1	1.5
Industrial truck and tractor equipment operators	369	5.6	19.6	8.2	398	5.3	18.1	8.6
Handlers, equipment cleaners, helpers, and laborers	4,147	16.8	15.1	8.6	4,413	16.6	14.8	8.7
Helpers, construction and extractive occupations	167	13.0	11.4	10.9	185	2.9	12.9	12.4
Helpers, construction trades	153	2.9	11.5	11.5	170	2.7	13.9	12.9
Construction laborers	595	2.1	16.1	11.3	668	2.6	15.7	10.3
Production helpers	75	24.4	13.7	9.1	71	17.6	11.8	12.4
Freight, stock, and material handlers	1,488	15.4	15.3	7.1	1,564	15.9	15.6	6.5
Stock handlers and baggers	815	20.7	9.4	6.9	863	21.2	10.8	6.0
Machine feeders and offbearers	88	32.1	22.7	5.0	86	32.6	22.0	7.5

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1983				1984			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Handlers, equipment cleaners, helpers, and laborers—Continued								
Garage and service station related occupations	293	4.6	8.8	7.3	267	8.5	8.1	8.1
Vehicle washers and equipment cleaners	175	14.7	22.3	12.4	206	13.6	22.0	9.5
Hand packers and packagers	286	67.0	13.6	7.7	286	67.6	12.5	9.7
Laborers, except construction	1,024	19.4	16.0	8.6	1,123	18.2	14.8	9.8
Farming, forestry, and fishing	3,700	16.0	7.5	8.2	3,600	15.6	7.7	9.0
Farm operators and managers	1,450	12.1	1.3	.7	1,442	12.5	1.0	.9
Farmers	1,369	12.1	1.2	.7	1,347	12.5	1.0	.8
Farm managers	81	10.5	3.0	1.7	95	12.9	2.2	3.3
Other agricultural and related occupations	2,072	19.9	11.7	14.0	1,999	18.9	12.2	15.2
Farm occupations, except managerial	1,216	24.4	11.3	16.0	1,159	23.8	12.0	18.5
Farm workers	1,149	24.8	11.6	15.9	1,087	24.1	12.3	18.4
Related agricultural occupations	855	13.6	12.3	11.2	840	12.1	12.3	10.7
Supervisors	99	5.0	5.6	10.4	105	4.9	4.7	8.6
Groundskeepers and gardeners, except farm	645	6.8	14.7	11.6	647	7.1	14.6	11.4
Animal caretakers, except farm	97	60.0	3.2	5.9	76	55.3	4.8	5.0
Forestry and logging occupations	126	1.4	12.8	2.1	105	3.2	13.6	2.3
Timber cutting and logging	96	(1)	14.4	2.3	84	1.9	13.4	2.7
Fishers, hunters, and trappers	53	4.5	1.8	2.5	54	3.6	8.1	10.1

Occupation	1985				1986			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Total, 16 years and over	107,150	44.1	9.8	6.2	109,597	44.4	9.9	6.6
Managerial and professional specialty	25,851	42.7	5.9	3.3	26,554	43.4	6.0	3.5
Executive, administrative, and managerial	12,221	35.6	5.3	3.5	12,642	36.8	5.2	3.7
Officials and administrators, public administration	462	40.7	8.7	3.3	467	42.0	8.4	3.8
Financial managers	394	35.7	3.1	3.1	409	38.4	3.0	4.3
Personnel and labor relations managers	110	44.5	5.6	3.3	114	48.8	5.5	3.5
Purchasing managers	99	24.4	4.0	2.7	100	29.4	4.1	3.0
Managers, marketing, advertising, and public relations	419	23.8	3.9	2.5	440	24.9	2.5	2.3
Administrators, education and related fields	480	48.2	9.4	2.6	500	47.7	8.9	3.5
Managers, medicine and health	106	59.2	8.1	4.6	127	62.2	8.1	2.7
Managers, properties and real estate	342	41.0	5.1	5.9	362	44.2	5.2	5.6
Management-related occupations	3,318	45.7	6.5	4.0	3,449	46.3	6.7	3.9
Accountants and auditors	1,263	44.1	5.9	4.2	1,257	44.9	5.6	4.0
Underwriters and other financial officers	621	48.0	5.9	3.8	655	47.3	6.0	3.1
Management analysts	158	29.4	4.7	2.2	190	30.9	5.9	2.4
Personnel, training, and labor relations specialists	343	56.5	11.6	5.3	348	55.2	11.9	3.8
Buyers, wholesale and retail trade, except farm products	207	48.7	2.4	3.1	224	50.2	3.2	4.9
Inspectors and compliance officers, except construction	164	22.9	13.1	5.2	190	20.5	13.6	3.9
Professional specialty	13,630	49.1	6.3	3.0	13,911	49.4	6.7	3.3
Architects	130	11.3	3.1	4.6	132	9.7	3.2	4.1
Engineers	1,683	6.7	2.6	2.6	1,749	6.0	3.7	2.5
Aerospace engineers	95	4.7	1.3	6.9	93	7.1	4.0	3.3
Chemical engineers	64	8.8	2.4	2.4	59	8.1	.7	2.5
Civil engineers	221	4.7	1.8	2.6	233	2.7	4.3	4.0
Electrical and electronic engineers	544	8.3	3.4	2.0	550	6.9	4.2	2.1
Industrial engineers	178	10.9	2.9	3.1	203	10.9	4.1	2.8
Mechanical engineers	272	3.7	2.2	2.1	287	3.5	3.6	1.0
Mathematical and computer scientists	571	31.1	5.6	2.8	631	36.2	7.2	2.5
Computer systems analysts and scientists	359	28.0	5.5	3.1	385	34.4	6.6	2.4
Operations and systems researchers and analysts	164	34.9	5.3	3.1	195	39.4	7.6	3.2
Natural scientists	376	20.8	2.9	2.4	384	22.5	2.5	3.2
Chemists, except biochemists	111	21.0	5.6	3.6	123	22.8	3.6	3.0
Biological and life scientists	64	33.3	1.6	2.7	65	37.6	1.4	6.2
Health diagnosing occupations	728	14.8	3.2	3.1	728	15.0	3.3	3.2
Physicians	492	17.2	3.7	3.9	489	17.6	3.3	4.1
Dentists	131	6.5	2.6	2.1	132	4.4	5.5	2.0

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1985				1986			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Professional specialty—Continued								
Health assessment and treating occupations	2,006	85.6	7.0	2.4	2,026	85.3	7.0	2.8
Registered nurses	1,447	95.1	6.8	2.1	1,488	94.3	6.7	2.4
Pharmacists	172	29.8	3.2	2.0	162	31.4	4.0	3.7
Dietitians	81	93.9	19.3	3.4	73	93.4	17.7	2.5
Therapists	257	76.2	7.2	4.2	257	74.2	7.8	4.4
Inhalation therapists	70	64.3	12.9	4.6	73	59.9	13.8	7.5
Physical therapists	60	72.5	3.7	6.7	56	71.8	4.1	5.3
Speech therapists	58	93.8	2.3	.7	61	90.8	3.9	1.0
Teachers, college and university	643	35.2	3.9	3.0	639	36.0	4.0	3.2
Teachers, except college and university	3,523	73.0	9.2	3.1	3,559	73.4	9.5	3.6
Prekindergarten and kindergarten	329	98.8	11.9	5.4	359	98.3	13.9	6.1
Elementary school	1,360	84.0	11.1	2.7	1,340	85.2	10.8	3.4
Secondary school	1,175	54.0	7.6	3.2	1,195	54.9	7.8	3.4
Special education	206	85.0	9.9	2.1	216	87.1	11.9	1.6
Teachers, n.e.c.	454	65.3	5.3	3.1	448	61.2	5.7	3.7
Counselors, educational and vocational	177	55.9	11.7	5.8	173	53.9	12.9	4.7
Librarians, archivists, and curators	215	84.7	6.1	2.6	212	82.9	7.4	1.8
Librarians	201	87.0	6.6	2.8	194	85.9	7.5	1.7
Social scientists and urban planners	286	42.6	5.2	3.1	312	46.0	5.5	2.8
Economists	102	34.5	3.4	3.4	111	39.3	3.0	2.8
Psychologists	150	50.4	6.6	3.4	165	52.5	6.8	3.1
Social, recreation, and religious workers	873	45.6	12.6	4.7	911	46.9	12.5	5.3
Social workers	438	66.7	17.6	5.6	480	65.0	17.8	7.3
Recreation workers	76	67.5	13.0	6.8	75	68.3	15.6	5.2
Clergy	289	6.0	7.3	3.3	285	7.2	5.5	2.4
Religious workers, n.e.c.	70	53.0	3.0	2.8	71	61.3	1.8	2.9
Lawyers and judges	671	18.2	3.3	2.3	650	18.1	3.0	1.9
Lawyers	642	18.1	3.0	2.3	618	18.0	2.9	1.8
Writers, artists, entertainers, and athletes	1,725	44.5	4.7	3.3	1,781	45.0	5.2	4.0
Authors	70	48.0	2.3	2.1	75	53.1	.7	2.4
Designers	484	51.1	3.0	3.6	484	49.7	3.8	4.9
Musicians and composers	152	30.3	9.3	3.3	164	32.0	8.3	3.0
Painters, sculptors, craft-artists, and artist printmakers	200	50.0	3.2	2.9	189	51.0	6.3	3.3
Photographers	129	27.3	5.2	3.1	127	31.9	5.7	3.5
Editors and reporters	230	51.7	4.1	2.3	251	50.5	3.8	4.4
Public relations specialists	143	48.7	7.4	3.1	157	51.7	6.9	3.1
Athletes	64	20.5	5.8	4.6	64	21.7	7.1	6.4
Technical, sales, and administrative support	33,231	64.7	8.4	5.0	34,354	64.7	8.5	5.3
Technicians and related support	3,255	47.2	8.9	4.0	3,364	47.0	8.2	4.0
Health technologists and technicians	1,115	83.4	13.6	4.1	1,124	84.1	12.4	3.7
Clinical laboratory technologists and technicians	295	75.5	11.0	4.9	285	76.5	10.8	3.8
Dental hygienists	56	99.5	2.0	2.0	59	99.5	.5	1.7
Radiologic technicians	121	73.8	7.5	2.7	113	67.1	9.0	5.6
Licensed practical nurses	402	96.9	19.6	4.5	417	97.5	17.2	2.9
Engineering and related technologists and technicians	904	18.1	6.4	4.9	937	17.7	6.3	5.3
Electrical and electronic technicians	304	13.1	9.1	5.0	328	12.6	7.0	4.5
Drafting occupations	297	17.4	3.9	5.5	283	19.4	4.3	7.2
Science technicians	211	33.3	8.1	3.8	208	27.9	7.0	4.2
Biological technicians	54	43.2	9.2	5.5	55	35.5	5.3	3.9
Chemical technicians	88	25.3	7.2	3.4	78	23.7	5.6	5.1
Technicians, except health, engineering, and science	1,026	36.4	6.2	3.2	1,095	37.6	5.8	3.1
Airplane pilots and navigators	77	2.6	1.0	.1	79	1.5	.9	.1
Computer programmers	534	34.3	6.4	2.5	549	34.0	5.9	2.2
Legal assistants	148	75.6	7.3	4.6	176	77.5	5.6	5.0
Sales occupations	12,667	48.1	5.5	4.4	13,245	48.2	5.7	4.9
Supervisors and proprietors	3,316	31.2	3.8	4.0	3,493	30.5	4.0	4.4
Sales representatives, finance and business services	2,099	41.0	3.4	2.7	2,255	41.5	3.9	3.4
Insurance sales	541	27.7	4.7	2.7	562	28.7	5.8	3.9
Real estate sales	659	51.6	2.3	2.7	737	50.6	2.1	3.3
Securities and financial services sales	266	24.6	2.2	1.2	283	24.5	3.1	2.6
Advertising and related sales	148	51.5	5.7	2.7	139	50.4	6.4	3.8
Sales occupations, other business services	485	47.2	3.5	3.5	534	49.0	4.0	3.5
Sales representatives, commodities, except retail	1,509	17.5	2.3	3.1	1,505	18.3	2.2	3.4

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1985				1986			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Sales occupations—Continued								
Sales workers, retail and personal services	5,682	68.5	8.2	5.6	5,927	68.6	8.2	6.1
Sales workers, motor vehicles and boats	275	7.7	4.2	4.8	283	7.2	3.5	5.5
Sales workers, apparel	465	82.7	7.8	5.5	454	82.9	7.0	6.6
Sales workers, shoes	108	58.2	10.6	10.4	113	60.1	8.2	7.8
Sales workers, furniture and home furnishings	161	51.0	4.2	4.2	172	46.9	2.7	4.9
Sales workers, radio, television, hi-fi, and appliances	170	28.3	4.4	4.2	172	30.1	5.6	5.8
Sales workers, hardware and building supplies	198	22.7	3.6	5.4	200	26.6	4.3	4.4
Sales workers, parts	153	12.2	3.2	5.7	171	9.8	3.4	6.1
Sales workers, other commodities	1,388	74.6	6.1	4.4	1,426	75.1	5.6	5.2
Sales counter clerks	140	72.2	7.5	7.3	168	72.5	8.5	5.2
Cashiers	2,174	83.1	12.1	6.4	2,310	82.9	12.3	6.8
Street and door-to-door sales workers	325	76.1	4.1	5.4	336	74.7	5.6	7.0
News vendors	126	30.7	5.0	5.5	123	32.3	7.4	4.1
Sales-related occupations	63	63.7	2.1	3.1	65	64.6	4.6	2.4
Administrative support, including clerical	17,309	80.2	10.4	5.6	17,745	80.4	10.7	5.8
Supervisors	712	53.4	12.3	4.5	727	59.3	10.8	5.1
General office	421	64.1	12.5	4.1	437	68.1	10.6	5.5
Financial records processing	87	69.8	6.1	4.4	94	73.3	4.9	3.1
Supervisors, distribution, scheduling, and adjusting clerks	156	20.6	16.1	5.9	152	30.9	14.9	5.9
Computer equipment operators	779	66.4	13.5	5.9	859	68.5	14.0	6.1
Computer operators	774	66.5	13.5	5.9	853	68.6	14.0	6.0
Secretaries, stenographers, and typists	5,002	97.7	8.2	4.5	4,940	98.2	8.5	5.1
Secretaries	4,059	98.4	6.5	4.3	4,023	99.0	6.9	4.8
Typists	880	95.6	16.0	5.8	870	95.2	16.3	6.5
Information clerks	1,257	90.1	8.4	6.4	1,326	89.7	8.4	6.7
Interviewers	172	84.6	11.2	6.5	182	85.8	9.3	5.3
Hotel clerks	71	72.7	7.5	5.1	77	72.1	9.2	5.6
Transportation ticket and reservation agents	106	67.0	12.7	4.9	114	68.3	9.4	8.0
Receptionists	679	97.6	6.7	6.2	724	97.1	7.4	6.7
Records processing occupations, except financial	842	81.1	14.1	7.0	845	81.4	14.4	7.0
Order clerks	198	78.8	12.6	5.0	201	76.0	12.3	4.9
Personnel clerks, except payroll and timekeeping	62	92.2	11.7	6.4	62	92.5	12.6	4.5
Library clerks	136	79.9	10.8	6.7	137	76.0	13.1	5.7
File clerks	290	81.0	17.4	8.5	311	84.5	17.6	9.6
Records clerks	134	80.4	13.8	7.4	113	81.5	11.9	6.5
Financial records processing	2,503	90.3	5.5	4.2	2,473	90.8	5.4	4.1
Bookkeepers, accounting, and auditing clerks	2,037	91.5	4.7	4.1	2,007	91.8	4.1	3.8
Payroll and timekeeping clerks	177	86.8	9.1	4.3	171	89.0	10.5	4.4
Billing clerks	158	87.7	7.7	5.0	164	89.2	9.4	7.4
Cost and rate clerks	82	73.5	11.9	3.0	85	75.0	15.5	3.7
Duplicating, mail and other office machine operators	65	69.4	11.7	8.9	77	61.9	16.9	7.2
Communications equipment operators	223	88.0	17.7	5.4	230	87.4	17.5	5.5
Telephone operators	215	88.8	17.9	5.5	220	87.9	17.4	5.6
Mail and message distributing occupations	805	33.9	19.8	5.4	903	34.4	20.3	6.2
Postal clerks, except mail carriers	258	41.4	26.1	5.0	299	43.5	29.8	7.1
Mail carriers, postal service	255	17.2	11.7	4.7	297	20.6	12.9	4.5
Mail clerks, except postal service	168	50.9	22.8	5.7	168	48.9	18.4	6.8
Messengers	124	29.5	19.5	7.2	139	26.8	17.8	7.3
Material recording, scheduling, and distributing clerks	1,669	39.9	11.6	7.1	1,639	39.5	11.8	8.1
Dispatchers	187	47.9	9.9	1.8	187	50.7	7.7	3.7
Production coordinators	181	48.6	5.9	4.7	178	45.2	7.2	4.4
Traffic, shipping, and receiving clerks	491	25.5	13.1	10.6	468	26.1	11.7	12.4
Stock and inventory clerks	546	41.1	12.6	6.6	553	39.9	14.2	7.2
Weighers, measurers, and checkers	76	49.2	11.0	10.0	72	46.1	14.1	7.7
Expediters	113	61.9	9.4	4.1	109	61.9	10.4	6.2
Adjusters and investigators	723	71.8	11.2	6.6	824	72.3	11.1	5.7
Insurance adjusters, examiners, and investigators	220	65.9	9.5	4.9	250	66.6	12.5	4.8
Investigators and adjusters, except insurance	348	74.5	11.2	5.8	382	74.4	9.9	5.0
Eligibility clerks, social welfare	58	87.7	18.7	15.3	70	90.4	18.1	7.9
Bill and account collectors	97	66.3	10.2	8.4	122	67.2	7.8	8.1
Miscellaneous administrative support	2,728	85.1	12.9	6.8	2,902	84.9	13.4	6.5
General office clerks	694	80.1	12.0	6.7	740	80.5	13.0	6.1
Bank tellers	484	93.0	6.0	6.6	482	91.8	7.8	5.3
Data entry keyers	353	90.7	19.5	7.6	343	91.1	19.6	8.1
Statistical clerks	96	75.4	13.8	5.0	102	77.3	13.5	4.2
Teachers' aides	379	93.6	17.8	11.1	381	94.2	17.9	10.8

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1985				1986			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Service occupations	14,441	60.6	17.5	8.1	14,680	60.7	16.9	8.8
Private household	1,006	96.2	28.9	9.8	981	96.0	23.9	12.9
Child care workers	399	96.9	8.9	4.3	400	97.4	8.3	6.1
Cleaners and servants	550	95.8	42.3	13.3	527	95.3	35.5	17.8
Protective service	1,718	13.2	15.1	5.8	1,787	12.4	15.0	5.6
Supervisors, protective service	134	5.8	9.5	4.0	162	4.3	8.7	4.4
Supervisors, police and detectives	73	4.6	8.7	3.8	88	4.8	7.1	4.3
Firefighting and fire prevention	209	1.4	5.9	3.7	218	2.2	7.3	4.5
Firefighting occupations	186	.8	6.1	3.3	205	1.9	7.8	4.4
Police and detectives	652	10.1	13.5	6.1	666	10.9	14.6	5.2
Police and detectives, public service	419	8.2	11.3	6.6	402	7.0	11.7	6.3
Sheriffs, bailiffs, and other law enforcement officers	86	8.2	10.4	6.5	89	13.5	12.4	6.1
Correctional institution officers	147	16.6	21.6	4.2	174	18.7	22.4	2.3
Guards	722	20.9	20.2	6.6	741	18.4	19.0	6.4
Guards and police, except public service	615	14.5	21.9	7.0	642	12.5	20.1	7.1
Service occupations, except private household and protective service	11,718	64.4	16.8	8.3	11,913	65.0	16.6	9.0
Food preparation and service occupations	5,094	62.5	12.0	8.3	5,127	62.8	12.1	8.8
Supervisors	284	67.0	11.0	7.6	293	70.1	9.9	7.4
Bartenders	324	47.9	4.9	3.8	322	48.8	3.1	5.2
Waiters and waitresses	1,367	84.0	4.7	5.5	1,403	85.1	5.1	6.2
Cooks, except short order	1,553	51.3	18.4	9.1	1,563	50.6	17.2	9.6
Short-order cooks	103	36.5	20.7	4.4	111	36.8	22.6	6.1
Food counter, fountain, and related occupations	333	79.5	10.0	4.9	340	78.5	12.6	5.3
Kitchen workers, food preparation	134	74.8	18.0	9.9	126	76.3	18.2	11.1
Waiters' and waitresses' assistants	350	40.1	12.2	15.2	332	39.2	15.1	14.8
Miscellaneous food preparation	646	53.9	14.6	13.0	637	53.0	16.1	13.8
Health service occupations	1,760	89.9	24.5	5.6	1,823	89.9	25.1	5.7
Dental assistants	168	99.0	3.6	7.2	167	99.0	4.2	7.1
Health aides, except nursing	350	85.6	17.8	7.1	357	83.4	18.8	7.8
Nursing aides, orderlies, and attendants	1,242	89.9	29.2	4.9	1,299	90.5	29.5	5.0
Cleaning and building service occupations	2,815	40.2	25.0	11.1	2,861	41.5	23.8	12.8
Supervisors	148	36.2	22.6	9.9	146	33.4	18.6	9.7
Maids and housemen	563	83.5	30.8	12.7	583	84.8	29.8	13.9
Janitors and cleaners	2,049	29.4	24.0	10.9	2,075	30.9	22.9	12.7
Personal service occupations	2,049	80.9	11.0	6.8	2,101	80.8	10.3	7.2
Barbers	91	15.5	12.9	7.2	92	16.6	9.6	7.2
Hairdressers and cosmetologists	707	89.9	8.2	7.0	719	88.8	7.3	7.3
Attendants, amusement and recreation facilities	125	39.9	9.3	4.9	121	43.1	8.3	3.8
Public transportation attendants	65	78.8	13.2	4.8	71	77.1	7.3	6.2
Welfare service aides	82	92.6	23.3	13.4	87	91.7	22.5	12.9
Child care workers	738	96.1	10.6	5.9	762	96.5	11.4	6.9
Precision production, craft, and repair	13,340	8.4	7.1	7.4	13,405	8.6	7.5	7.7
Mechanics and repairers	4,475	3.4	6.9	6.6	4,374	3.5	7.3	6.9
Supervisors	266	8.3	6.2	3.2	247	8.1	5.0	4.3
Mechanics and repairers, except supervisors	4,209	3.1	6.9	6.8	4,127	3.2	7.4	7.1
Vehicle and mobile equipment mechanics and repairers	1,850	.8	6.2	7.8	1,787	1.0	6.7	7.6
Automobile mechanics	906	.7	7.5	8.3	871	1.0	7.6	8.4
Bus, truck, and stationery engine mechanics	347	.4	6.6	5.9	337	.7	6.3	6.2
Aircraft engine mechanics	90	4.2	5.6	10.3	99	2.3	11.1	5.5
Small engine repairers	75	.3	3.1	3.7	71	.3	2.8	3.0
Automobile body and related repairers	212	1.2	4.2	10.2	196	1.4	3.3	11.6
Heavy equipment mechanics	162	.1	3.8	6.0	164	.6	6.8	4.9
Industrial machinery repairers	531	2.5	6.6	5.8	541	2.6	7.6	7.4
Electrical and electronic equipment repairers	701	8.1	8.3	6.5	710	9.0	7.9	6.0
Electronic repairers, communications, and industrial equipment	159	5.6	8.6	7.1	166	5.9	5.9	7.9
Data processing equipment repairers	119	10.4	6.4	4.4	133	11.1	9.6	3.0
Telephone line installers and repairers	68	2.6	6.4	10.1	64	6.2	9.6	6.4
Telephone installers and repairers	229	12.8	9.1	6.5	228	13.3	8.1	6.0
Heating, air conditioning, and refrigeration mechanics	251	.6	4.1	6.0	261	.3	6.1	7.5
Miscellaneous mechanics and repairers	841	5.0	7.7	5.8	791	4.1	8.2	6.4
Office machine repairers	63	5.7	9.8	5.1	59	1.6	9.7	3.2
Millwrights	87	2.3	7.0	4.0	92	1.3	6.2	2.2

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1985				1986			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Precision production, craft, and repair—Continued								
Construction trades	4,745	2.0	6.7	6.9	4,924	2.0	7.1	7.4
Supervisors	602	1.3	3.4	4.9	615	1.6	3.8	4.2
Construction trades, except supervisors	4,143	2.1	7.2	7.2	4,309	2.1	7.6	7.9
Brickmasons and stonemasons	173	.5	17.1	9.3	177	.2	15.3	7.3
Carpet installers	92	.8	5.1	4.6	104	.9	8.4	6.4
Carpenters	1,259	1.2	4.8	6.4	1,327	1.4	5.3	6.7
Drywall installers	140	1.2	6.1	10.3	158	2.4	5.4	13.2
Electricians	636	1.6	4.7	4.2	635	1.3	6.2	4.6
Electrical power installers and repairers	107	.8	9.3	2.8	108	1.4	7.1	2.3
Painters, construction and maintenance	496	6.3	8.5	8.3	521	6.1	9.2	10.0
Plumbers, pipefitters, and steamfitters	454	1.0	6.1	5.3	473	.7	7.2	6.9
Concrete and terrazzo finishers	85	.2	26.5	21.4	87	.9	31.3	19.5
Insulation workers	59	2.8	7.1	6.9	60	2.2	10.3	7.5
Roofers	178	1.9	10.9	11.5	187	1.4	9.5	13.5
Structural metal workers	68	.7	4.2	5.8	68	.5	6.6	5.2
Extractive occupations	194	1.1	2.6	9.2	171	2.4	3.7	11.0
Precision production occupations	3,926	22.3	8.1	8.9	3,936	22.8	8.5	8.8
Supervisors	1,317	14.4	7.9	6.4	1,314	15.0	7.9	7.5
Precision metalworking	914	6.3	5.5	7.8	924	5.9	5.6	7.0
Tool and die makers	143	2.0	1.6	2.5	154	1.6	2.3	3.2
Machinists	502	3.7	6.1	8.6	488	3.7	5.7	8.0
Sheet-metal workers	128	5.2	6.6	7.5	137	6.2	7.1	6.3
Precision woodworking	110	15.5	3.8	9.1	103	17.1	3.7	8.5
Precision textile, apparel, and furnishings machine workers	256	55.1	7.2	15.7	273	57.5	8.2	13.6
Dressmakers	105	95.5	4.6	12.6	117	94.9	7.8	13.1
Upholsterers	82	19.9	6.5	17.8	79	24.6	8.6	11.2
Precision workers, assorted materials	541	57.9	9.5	13.3	535	57.3	11.1	10.8
Optical goods workers	49	45.9	3.8	5.2	58	55.9	3.5	1.8
Dental laboratory and medical appliance technicians	51	38.0	8.2	7.9	55	39.4	8.7	5.9
Electrical and electronic equipment assemblers	338	71.8	11.6	15.8	325	68.7	12.8	13.4
Precision food production occupations	429	27.7	11.9	12.0	435	29.4	14.4	12.8
Butchers and meat cutters	286	19.3	13.1	13.2	285	21.5	16.1	10.8
Bakers	104	41.0	10.3	6.2	110	39.0	13.4	13.3
Precision inspectors, testers, and related workers	131	24.1	8.8	7.4	115	21.5	8.9	9.2
Inspectors, testers, and graders	124	22.6	8.7	7.4	108	20.5	9.2	8.6
Plant and system operators	228	3.2	11.1	5.1	236	4.7	9.3	4.8
Stationary engineers	104	2.7	10.3	3.4	110	2.5	10.6	3.5
Operators, fabricators, and laborers	16,816	25.4	14.7	10.0	17,160	25.4	15.1	10.5
Machine operators, assemblers, and inspectors	7,840	40.3	14.3	11.7	7,911	40.3	14.7	12.1
Machine operators and tenders, except precision	5,191	41.9	15.0	12.5	5,246	41.6	15.6	12.9
Metalworking and plastic working machine operators	470	17.6	10.4	7.9	485	18.4	11.7	9.2
Lathe and turning machine operators	68	9.6	5.9	8.2	85	8.2	5.9	7.1
Punching and stamping press machine operators	116	29.1	15.2	9.5	136	31.8	11.9	10.0
Grinding, abrading, buffing, and polishing machine operators	141	13.8	11.1	8.8	148	14.2	14.7	11.1
Metal and plastic processing machine operators	162	25.2	11.1	9.5	162	21.8	9.3	9.8
Molding and casing machine operators	102	35.2	11.0	11.2	94	29.8	7.9	10.5
Woodworking machine operators	142	10.2	15.5	7.4	146	16.7	14.9	6.2
Sawing machine operators	92	5.9	15.8	8.8	91	13.5	15.3	6.8
Printing machine operators	441	27.8	5.3	6.9	463	28.4	6.3	6.9
Printing machine operators	291	15.9	6.0	7.6	305	14.5	7.4	7.5
Typesetters and compositors	73	70.5	3.1	3.9	79	72.4	1.5	7.4
Textile, apparel, and furnishings machine operators	1,336	79.8	19.2	15.7	1,323	79.8	21.4	15.9
Winding and twisting machine operators	81	77.9	35.9	.3	82	75.7	38.3	.9
Textile sewing machine operators	760	90.8	14.9	19.9	737	90.6	17.1	21.0
Pressing machine operators	142	68.6	29.3	15.2	136	71.9	33.7	13.2
Laundering and dry cleaning machine operators	176	62.6	20.6	12.0	190	65.5	23.7	11.4
Machine operators, assorted materials	2,618	32.1	15.6	13.1	2,639	31.7	15.6	13.8
Packaging and filling machine operators	385	60.1	21.7	17.1	402	60.1	21.8	17.0
Mixing and blending machine operators	123	7.3	20.0	14.9	94	7.7	18.3	13.7
Separating, filtering, and clarifying machine operators	53	13.3	9.9	6.9	63	13.6	11.9	10.2
Painting and paint spraying machine operators	207	15.6	11.2	17.1	190	17.4	13.6	13.4
Furnace, kiln, and oven operators, except food	105	3.6	12.3	6.0	109	4.1	10.7	6.3
Slicing and cutting machine operators	199	25.0	14.1	18.2	231	24.7	13.3	16.9
Photographic process machine operators	97	54.5	11.5	11.6	91	53.1	7.8	5.4
Fabricators, assemblers, and hand working occupations	1,833	30.8	13.0	11.0	1,849	32.4	12.7	10.8
Welders and cutters	587	4.8	8.2	9.6	571	5.1	9.4	9.7
Assemblers	1,047	41.8	16.4	11.4	1,089	43.7	15.0	11.5

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1985				1986			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Operators, fabricators, and laborers—Continued								
Production inspectors, testers, samplers, and weighers	815	51.2	12.5	8.1	817	49.6	13.6	9.5
Production inspectors, checkers, and examiners	642	52.2	11.7	6.7	658	51.0	12.7	8.1
Production testers	57	33.1	7.2	5.5	53	25.3	8.2	6.1
Graders and sorters, except agricultural	106	58.1	19.5	17.5	96	55.8	23.2	20.4
Transportation and material moving occupations	4,535	8.3	13.7	7.0	4,564	8.9	14.0	7.5
Motor vehicle operators	3,303	10.2	14.1	6.9	3,380	10.8	14.8	7.4
Truckdrivers, heavy	1,838	2.1	12.9	5.9	1,805	2.1	13.8	7.0
Truckdrivers, light	576	10.6	12.9	9.5	647	10.3	12.1	9.5
Drivers-sales workers	214	6.7	6.3	5.6	215	7.5	5.8	4.2
Bus drivers	394	49.2	20.8	5.8	415	50.4	24.0	5.4
Taxi-cab drivers and chauffeurs	183	10.9	23.8	11.0	187	12.5	21.9	11.6
Transportation occupations, except motor vehicles	208	2.0	5.8	3.1	203	2.1	3.9	4.3
Rail transportation occupations	148	2.1	7.4	3.1	143	2.1	5.0	4.8
Locomotive operating occupations	59	2.5	5.7	4.3	59	1.7	4.9	6.8
Water transportation occupations	60	1.9	1.7	3.1	59	2.1	1.1	3.2
Material moving equipment operators	1,024	3.2	13.8	8.0	981	3.6	13.6	8.7
Operating engineers	157	1.4	8.0	6.0	160	1.0	7.7	5.8
Crane and tower operators	91	.7	12.3	6.3	85	.8	17.6	6.7
Excavating and loading machine operators	113	1.2	8.4	4.7	101	.5	6.1	5.8
Grader, dozer, and scraper operators	102	1.4	3.7	3.5	105	1.9	7.6	5.1
Industrial truck and tractor equipment operators	398	3.1	20.9	10.2	386	5.0	19.4	11.1
Handlers, equipment cleaners, helpers, and laborers	4,441	16.7	16.3	10.2	4,685	16.3	16.6	10.5
Helpers, construction and extractive occupations	165	3.8	11.8	14.0	177	4.6	14.4	15.8
Helpers, construction trades	149	3.9	13.0	14.5	161	4.8	15.6	16.2
Construction laborers	686	3.1	16.7	13.0	743	2.8	15.0	14.1
Production helpers	81	25.3	14.5	14.5	74	24.5	17.4	17.7
Freight, stock, and material handlers	1,594	16.0	17.0	7.5	1,713	15.8	17.0	8.2
Stock handlers and baggers	818	22.1	11.9	6.9	878	21.0	11.8	7.4
Machine feeders and offbearers	93	32.4	24.7	5.9	94	35.0	22.3	5.0
Garage and service station related occupations	283	6.8	9.9	8.3	286	5.8	10.3	8.6
Vehicle washers and equipment cleaners	218	12.5	25.0	14.6	213	14.8	20.8	12.8
Hand packers and packagers	304	65.2	15.3	10.6	302	64.1	16.8	12.0
Laborers, except construction	1,066	18.0	16.3	10.6	1,128	17.7	18.0	9.6
Farming, forestry, and fishing	3,470	15.9	7.8	9.4	3,444	15.9	6.5	10.5
Farm operators and managers	1,359	13.9	1.4	1.1	1,337	14.1	1.4	1.1
Farmers	1,244	14.2	1.3	.9	1,207	14.1	1.5	.9
Farm managers	115	11.2	2.3	3.0	130	13.8	1.2	2.8
Other agricultural and related occupations	1,948	18.3	11.9	15.6	1,917	18.1	9.7	17.4
Farm occupations, except managerial	1,064	23.6	11.3	17.7	1,002	24.0	8.4	21.2
Farm workers	993	23.3	11.6	17.1	940	23.6	8.6	21.1
Related agricultural occupations	885	11.9	12.6	12.9	915	11.7	11.0	13.2
Supervisors	120	3.7	6.6	10.3	119	7.1	7.1	7.1
Groundskeepers and gardeners, except farm	662	5.8	14.7	14.2	704	5.2	12.1	14.7
Animal caretakers, except farm	83	58.2	5.1	1.9	75	65.9	5.0	4.6
Forestry and logging occupations	101	3.9	17.9	1.8	112	4.4	16.8	3.5
Timber cutting and logging	77	1.0	19.6	.4	78	1.3	18.0	2.3
Fishers, hunters, and trappers	61	5.0	1.1	9.5	77	9.0	(1)	11.7

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1987				1988			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Total, 16 years and over	112,440	44.8	10.1	6.9	114,968	45.0	10.1	7.2
Managerial and professional specialty	27,742	44.3	6.2	3.7	29,190	44.7	6.1	3.7
Executive, administrative, and managerial	13,316	37.9	5.6	3.8	14,216	39.3	5.6	4.0
Officials and administrators, public administration	474	41.8	9.6	3.9	472	44.5	9.4	4.1
Financial managers	462	43.8	3.9	3.5	502	42.4	4.3	4.1
Personnel and labor relations managers	127	53.0	4.0	3.4	130	49.1	5.5	3.1
Purchasing managers	100	27.8	7.6	3.1	99	24.4	5.6	2.8
Managers, marketing, advertising, and public relations	444	27.4	3.0	2.3	482	32.0	3.6	2.6
Administrators, education and related fields	516	48.5	9.9	3.7	562	48.9	9.5	1.9
Managers, medicine and health	154	59.9	6.9	3.1	163	61.3	6.3	1.8
Managers, properties and real estate	397	43.8	4.6	6.5	433	44.8	6.2	6.6
Management-related occupations	3,577	48.4	7.4	3.7	3,772	50.6	7.2	4.2
Accountants and auditors	1,255	45.7	7.4	3.5	1,329	49.6	7.5	3.7
Underwriters and other financial officers	728	49.3	5.8	4.2	741	50.7	5.4	4.8
Management analysts	178	31.3	7.3	1.3	199	33.0	4.9	2.0
Personnel, training, and labor relations specialists	381	57.8	10.4	3.7	390	58.9	9.4	4.8
Buyers, wholesale and retail trade, except farm products	231	49.5	3.3	4.0	233	50.4	3.4	5.5
Inspectors and compliance officers, except construction	183	23.6	14.4	4.6	194	26.8	12.0	8.0
Professional specialty	14,426	50.1	6.7	3.5	14,974	49.8	6.7	3.4
Architects	135	12.6	2.2	7.2	143	14.6	4.4	6.3
Engineers	1,731	6.9	3.5	2.6	1,805	7.3	3.8	2.6
Aerospace engineers	104	7.6	5.1	1.5	115	6.3	5.4	.8
Chemical engineers	63	10.4	3.7	1.3	65	12.0	2.7	2.1
Civil engineers	210	4.1	1.9	4.1	218	6.0	3.7	5.9
Electrical and electronic engineers	545	7.2	3.2	2.4	573	7.9	3.7	2.5
Industrial engineers	221	13.5	3.5	2.6	221	12.9	6.0	1.2
Mechanical engineers	277	4.2	4.5	2.8	297	3.7	2.9	2.6
Mathematical and computer scientists	685	34.1	6.7	2.5	732	33.4	7.4	3.0
Computer systems analysts and scientists	447	32.1	6.9	2.2	479	29.5	7.4	2.6
Operations and systems researchers and analysts	197	37.7	6.2	3.8	210	39.6	6.4	4.0
Natural scientists	388	24.1	2.4	2.7	395	24.1	2.5	2.8
Chemists, except biochemists	120	21.7	2.7	2.5	125	23.7	4.1	2.0
Biological and life scientists	71	38.4	1.3	2.1	75	39.7	1.0	2.4
Health diagnosing occupations	793	16.5	3.0	4.5	818	18.2	2.8	4.0
Physicians	514	19.5	3.7	5.5	541	20.0	3.3	4.7
Dentists	160	8.9	2.1	3.3	152	9.3	1.9	3.0
Health assessment and treating occupations	2,148	86.3	7.7	2.9	2,154	84.9	7.8	2.9
Registered nurses	1,588	95.1	7.7	2.6	1,559	94.6	8.5	2.7
Pharmacists	153	31.1	3.0	1.9	168	31.9	2.7	1.1
Dietitians	63	90.1	29.5	5.5	74	86.0	18.8	4.7
Therapists	285	76.3	6.5	3.5	298	73.0	4.9	4.0
Inhalation therapists	60	63.0	9.0	8.9	65	54.0	7.6	4.6
Physical therapists	75	74.5	6.1	4.0	82	73.5	2.1	6.1
Speech therapists	73	90.9	2.8	-	66	90.2	3.9	-
Teachers, college and university	661	37.1	4.6	3.1	700	38.5	4.0	3.6
Teachers, except college and university	3,587	73.6	9.4	3.9	3,773	72.9	8.8	3.9
Prekindergarten and kindergarten	389	98.4	13.7	5.1	393	98.2	9.2	6.3
Elementary school	1,329	85.3	10.0	4.0	1,424	84.8	10.2	3.9
Secondary school	1,172	54.3	8.2	3.7	1,187	51.2	8.1	3.7
Special education	216	83.5	10.5	1.8	246	85.2	10.6	1.0
Teachers, n.e.c.	480	64.2	7.1	4.1	524	65.2	5.5	3.7
Counselors, educational and vocational	191	59.5	14.0	5.2	206	61.8	14.9	4.6
Librarians, archivists, and curators	219	81.8	6.8	2.6	219	82.6	8.0	1.5
Librarians	196	85.6	7.0	1.9	196	85.4	7.8	1.6
Social scientists and urban planners	316	48.7	5.8	2.7	343	47.6	7.1	3.9
Economists	113	40.8	1.6	2.3	116	35.3	6.1	4.0
Psychologists	171	54.6	8.9	2.8	196	55.8	7.8	4.0
Social, recreation, and religious workers	980	46.6	12.5	5.6	1,052	46.1	13.9	4.8
Social workers	507	65.6	18.1	7.0	537	66.0	19.3	6.2
Recreation workers	81	69.3	13.7	4.5	92	64.2	12.3	5.1
Clergy	312	6.9	5.7	3.7	348	8.8	8.6	2.7
Religious workers, n.e.c.	82	57.9	2.4	5.7	75	54.9	1.2	3.6
Lawyers and judges	707	19.7	3.4	2.0	757	19.5	2.3	1.9
Lawyers	672	19.6	3.0	1.7	724	19.3	2.0	1.9

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1987				1988			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Professional specialty—Continued								
Writers, artists, entertainers, and athletes	1,858	45.9	4.7	3.9	1,855	46.7	4.3	3.6
Authors	85	50.7	.8	1.7	82	56.0	.4	.7
Designers	531	52.0	2.8	4.8	510	53.3	2.1	3.6
Musicians and composers	169	31.4	8.8	4.3	151	29.6	7.7	7.2
Painters, sculptors, craft-artists, and artist printmakers	191	53.9	5.8	3.3	215	51.2	3.6	4.2
Photographers	126	31.1	6.8	3.1	117	30.7	4.4	2.1
Editors and reporters	267	50.4	4.1	2.6	260	51.1	4.0	2.5
Public relations specialists	142	56.6	5.9	4.7	151	59.1	5.1	2.4
Athletes	69	22.6	8.9	6.4	73	16.7	13.6	4.2
Technical, sales, and administrative support	35,082	64.7	8.8	5.6	35,532	64.8	9.1	5.8
Technicians and related support	3,346	48.6	8.5	3.9	3,521	47.9	9.4	4.3
Health technologists and technicians	1,142	84.3	13.8	3.5	1,226	82.6	14.2	4.5
Clinical laboratory technologists and technicians	259	78.9	13.8	3.1	272	76.0	14.2	4.5
Dental hygienists	74	97.3	1.7	2.8	78	97.6	3.2	1.9
Radiologic technicians	127	70.6	8.5	2.7	133	76.0	4.1	5.7
Licensed practical nurses	406	97.0	18.3	2.7	423	96.0	19.1	3.8
Engineering and related technologists and technicians	896	17.1	4.9	5.4	930	18.9	6.1	4.7
Electrical and electronic technicians	305	14.3	5.9	4.7	322	14.4	6.8	6.6
Drafting occupations	283	15.8	5.0	7.9	290	16.3	5.5	4.3
Science technicians	204	31.5	7.5	3.0	216	31.1	8.7	3.9
Biological technicians	59	42.8	4.1	2.4	55	42.5	8.2	5.1
Chemical technicians	73	25.1	11.3	3.3	81	26.8	10.0	3.1
Technicians, except health, engineering, and science	1,104	40.2	6.0	3.2	1,149	37.7	6.9	3.9
Airplane pilots and navigators	78	2.2	2.8	.9	88	3.1	1.4	1.5
Computer programmers	527	36.6	5.6	2.7	570	32.2	6.9	3.8
Legal assistants	189	79.0	6.4	5.3	203	76.3	8.2	6.0
Sales occupations	13,480	48.0	6.0	5.3	13,747	48.9	6.1	5.3
Supervisors and proprietors	3,572	31.8	4.3	4.4	3,658	33.5	4.3	4.8
Sales representatives, finance and business services	2,330	40.1	3.5	3.4	2,410	41.2	4.0	3.4
Insurance sales	544	27.4	5.0	4.4	545	29.7	4.5	4.3
Real estate sales	778	48.7	2.3	2.9	792	48.5	3.2	2.6
Securities and financial services sales	319	24.7	1.9	2.3	319	27.5	2.5	2.3
Advertising and related sales	148	49.3	4.9	4.4	168	47.8	5.4	3.3
Sales occupations, other business services	542	47.2	4.3	3.6	585	47.4	4.9	4.2
Sales representatives, commodities, except retail	1,544	17.1	2.5	4.2	1,551	19.2	3.1	3.7
Sales workers, retail and personal services	5,973	68.5	8.9	6.8	6,068	68.6	8.9	6.8
Sales workers, motor vehicles and boats	304	9.3	4.9	4.8	294	8.0	5.2	5.3
Sales workers, apparel	450	83.3	8.6	7.6	462	83.2	9.8	8.6
Sales workers, shoes	120	64.5	11.7	8.9	112	60.3	10.9	11.7
Sales workers, furniture and home furnishings	167	48.8	3.1	7.5	166	49.6	3.0	4.8
Sales workers, radio, television, hi-fi, and appliances	187	33.1	8.7	5.4	180	36.4	4.4	6.1
Sales workers, hardware and building supplies	209	23.2	3.0	5.6	198	21.4	4.0	3.4
Sales workers, parts	157	8.4	4.7	7.1	169	9.0	7.1	6.0
Sales workers, other commodities	1,514	73.1	6.7	5.5	1,537	73.6	6.6	6.5
Sales counter clerks	174	73.3	7.8	5.9	189	73.9	6.5	8.6
Cashiers	2,286	83.0	12.8	8.0	2,337	82.2	12.5	7.4
Street and door-to-door sales workers	303	78.9	5.3	7.1	318	79.2	6.0	5.6
News vendors	100	32.2	4.6	4.9	108	37.4	7.7	3.4
Sales-related occupations	60	67.8	2.3	4.0	59	71.2	1.3	2.1
Administrative support, including clerical	18,256	80.0	11.0	6.2	18,264	80.1	11.3	6.5
Supervisors	723	56.9	11.3	5.2	764	58.0	13.5	5.9
General office	439	66.3	11.1	5.5	458	67.7	13.3	6.4
Financial records processing	79	73.0	4.8	4.5	91	70.3	7.5	1.6
Supervisors, distribution, scheduling, and adjusting clerks	159	28.0	16.8	5.2	165	29.5	19.4	7.6
Computer equipment operators	914	66.0	14.1	6.2	869	66.1	14.4	5.9
Computer operators	911	66.0	14.1	6.1	865	66.0	14.3	6.0
Secretaries, stenographers, and typists	5,004	98.1	8.4	5.2	4,876	98.2	8.5	5.3
Secretaries	4,107	99.1	6.8	4.8	4,030	99.1	7.1	4.8
Typists	843	94.6	16.5	7.3	798	94.5	16.0	7.8
Information clerks	1,371	90.0	8.8	7.6	1,479	88.5	9.1	8.5
Interviewers	157	87.4	9.3	9.4	163	85.6	11.8	5.5
Hotel clerks	90	72.2	5.5	6.7	103	64.8	6.7	10.2
Transportation ticket and reservation agents	111	63.6	13.8	8.7	114	58.7	15.3	11.3
Receptionists	766	97.5	7.6	7.1	848	97.1	7.4	8.7

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1987				1988			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Administrative support, including clerical—Continued								
Records processing occupations, except financial	844	80.9	15.8	6.7	827	82.1	15.6	6.9
Order clerks	189	76.8	12.6	5.1	197	77.3	15.7	5.2
Personnel clerks, except payroll and timekeeping	70	84.6	15.3	9.1	65	89.7	17.7	6.2
Library clerks	146	77.0	13.5	6.8	143	78.8	11.2	6.1
File clerks	281	82.5	20.4	7.2	271	83.3	18.8	9.8
Records clerks	135	84.5	13.9	7.7	132	86.5	12.5	5.3
Financial records processing	2,469	90.9	6.0	4.7	2,414	91.0	6.2	5.1
Bookkeepers, accounting, and auditing clerks	2,004	92.4	4.7	4.7	1,970	92.1	5.1	5.0
Payroll and timekeeping clerks	177	84.9	10.3	4.0	173	90.0	8.8	4.6
Billing clerks	171	89.0	10.4	5.7	157	90.2	14.5	7.0
Cost and rate clerks	84	73.6	17.4	5.0	75	72.7	9.3	7.3
Duplicating, mail and other office machine operators	69	64.7	20.3	5.6	68	62.0	16.0	11.6
Communications equipment operators	225	91.8	19.9	6.1	218	89.4	19.3	4.5
Telephone operators	218	92.2	19.5	6.2	210	89.8	19.2	4.2
Mail and message distributing occupations	961	34.7	19.8	7.7	936	36.3	22.0	8.6
Postal clerks, except mail carriers	315	44.0	27.7	7.2	313	47.6	32.1	6.2
Mail carriers, postal service	321	21.3	12.3	7.1	320	22.0	13.4	10.4
Mail clerks, except postal service	172	50.9	21.1	9.6	163	50.6	23.8	10.0
Messengers	153	25.6	17.8	8.1	141	27.6	17.3	8.2
Material recording, scheduling, and distributing clerks	1,709	39.9	13.3	8.1	1,681	38.4	14.0	8.5
Dispatchers	197	45.7	7.3	5.2	171	45.9	7.3	5.2
Production coordinators	192	46.8	7.4	5.4	192	46.6	9.3	6.2
Traffic, shipping, and receiving clerks	483	29.9	13.3	10.8	521	27.5	15.9	10.5
Stock and inventory clerks	580	39.0	17.1	8.4	559	38.7	16.2	9.3
Weighers, measurers, and checkers	72	49.0	17.2	6.9	72	46.0	15.6	5.5
Expediters	109	61.0	10.0	6.1	95	62.8	10.2	7.9
Adjusters and investigators	897	73.0	12.0	5.5	949	75.0	11.3	6.0
Insurance adjusters, examiners, and investigators	257	71.1	12.8	4.8	287	72.2	10.1	4.8
Investigators and adjusters, except insurance	442	74.0	11.3	5.5	466	76.9	11.7	6.3
Eligibility clerks, social welfare	67	88.4	11.5	7.9	65	90.3	15.3	8.6
Bill and account collectors	131	65.6	12.7	5.7	130	66.6	10.5	5.9
Miscellaneous administrative support	3,071	84.9	12.7	6.9	3,183	85.0	13.1	7.0
General office clerks	803	82.9	11.3	7.5	833	81.3	11.3	6.8
Bank tellers	467	90.6	7.9	6.1	478	91.0	8.8	6.6
Data entry keyers	361	87.2	19.4	6.5	362	88.2	19.8	7.6
Statistical clerks	98	74.2	10.2	6.7	85	73.4	8.8	8.1
Teachers' aides	390	95.1	15.0	9.9	423	95.9	14.3	9.6
Service occupations	15,054	60.6	17.4	9.1	15,332	60.5	17.6	10.2
Private household	934	96.3	22.6	12.8	909	96.3	22.5	16.7
Child care workers	405	96.9	8.0	6.4	378	97.3	8.8	9.6
Cleaners and servants	472	96.0	34.4	18.0	476	95.6	32.0	22.1
Protective service	1,907	14.2	16.6	5.8	1,944	14.4	16.7	6.3
Supervisors, protective service	161	6.4	10.1	3.5	174	7.4	15.3	3.7
Supervisors, police and detectives	83	7.3	9.2	2.2	93	9.0	15.4	3.4
Firefighting and fire prevention	221	2.0	7.4	5.3	218	2.9	8.3	5.8
Firefighting occupations	204	.9	7.7	5.3	195	2.1	8.6	6.4
Police and detectives	717	11.4	15.1	5.2	755	13.4	15.8	5.5
Police and detectives, public service	438	9.2	13.2	6.2	427	10.1	14.0	5.1
Sheriffs, bailiffs, and other law enforcement officers	104	14.0	12.0	3.9	111	17.4	9.2	5.4
Correctional institution officers	175	15.5	21.5	3.5	217	17.8	22.8	6.4
Guards	809	21.5	21.7	6.9	796	20.0	20.1	7.7
Guards and police, except public service	689	14.3	23.4	7.3	675	13.5	21.7	8.4
Service occupations, except private household and protective service	12,213	65.2	17.1	9.3	12,479	65.1	17.4	10.3
Food preparation and service occupations	5,204	62.4	12.7	9.1	5,182	61.6	12.4	10.2
Supervisors	301	66.8	9.0	4.9	325	68.3	10.7	7.6
Bartenders	326	49.9	2.3	5.7	324	49.6	2.2	5.8
Waiters and waitresses	1,383	85.1	5.1	5.7	1,363	82.6	3.9	5.7
Cooks, except short order	1,627	50.1	18.4	9.6	1,634	49.8	18.1	11.7
Short-order cooks	93	34.5	20.6	8.0	95	37.5	24.7	8.4
Food counter, fountain, and related occupations	359	77.7	13.7	6.7	325	78.3	12.5	8.0
Kitchen workers, food preparation	130	76.0	20.1	10.4	132	73.3	16.9	10.5
Waiters' and waitresses' assistants	325	37.8	15.6	17.6	339	39.9	15.3	20.0
Miscellaneous food preparation	660	54.3	16.8	15.4	645	53.9	17.7	15.4

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1987				1988			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Service occupations, except private household and protective service—Continued								
Health service occupations	1,873	89.8	25.5	7.0	1,977	89.3	28.2	6.3
Dental assistants	169	98.0	5.8	10.3	165	98.7	6.8	3.9
Health aides, except nursing	380	84.0	15.8	6.9	407	83.7	17.9	7.5
Nursing aides, orderlies, and attendants	1,324	90.4	30.8	6.6	1,404	89.8	33.7	6.2
Cleaning and building service occupations	2,886	41.7	24.2	12.9	2,994	42.6	23.0	15.2
Supervisors	161	33.9	23.4	9.7	159	37.6	26.8	12.5
Maids and housemen	602	84.6	30.0	14.6	644	85.0	29.0	18.2
Janitors and cleaners	2,059	30.8	22.8	12.7	2,133	31.2	21.1	14.6
Personal service occupations	2,249	81.3	11.2	7.2	2,327	81.1	12.0	7.8
Barbers	90	17.9	8.1	8.3	94	18.3	13.3	9.9
Hairdressers and cosmetologists	743	89.3	7.5	6.4	769	89.5	8.1	7.8
Attendants, amusement and recreation facilities	128	43.2	7.1	4.9	130	40.3	6.7	4.5
Public transportation attendants	76	84.5	9.4	5.1	77	79.1	15.9	2.8
Welfare service aides	104	90.5	24.6	13.3	92	94.1	24.0	10.0
Child care workers	827	96.0	12.5	7.1	853	96.0	13.3	7.1
Precision production, craft, and repair	13,568	8.5	7.3	8.0	13,664	8.7	7.5	8.2
Mechanics and repairers	4,445	3.4	7.3	7.0	4,454	3.3	7.1	7.6
Supervisors	259	9.0	6.3	2.4	256	7.1	5.1	3.8
Mechanics and repairers, except supervisors	4,186	3.0	7.3	7.3	4,198	3.1	7.2	7.8
Vehicle and mobile equipment mechanics and repairers	1,779	1.0	7.1	8.7	1,811	.9	7.1	9.2
Automobile mechanics	871	.6	7.4	9.3	879	.7	7.4	10.5
Bus, truck, and stationery engine mechanics	329	.5	6.8	7.5	325	.5	7.2	7.3
Aircraft engine mechanics	117	3.9	12.0	8.6	131	3.7	12.7	6.1
Small engine repairers	70	.9	2.6	7.2	70	.6	2.0	2.9
Automobile body and related repairers	184	1.5	6.5	8.5	194	1.0	4.8	13.3
Heavy equipment mechanics	157	.5	5.7	8.3	159	.5	5.8	7.7
Industrial machinery repairers	542	2.0	7.5	6.8	547	2.7	8.3	7.9
Electrical and electronic equipment repairers	685	8.5	7.4	5.6	677	8.0	7.1	4.7
Electronic repairers, communications, and industrial equipment	171	5.1	7.2	7.5	165	5.0	7.3	5.3
Data processing equipment repairers	134	12.6	7.8	3.4	140	8.8	6.7	2.6
Telephone line installers and repairers	57	7.7	6.0	4.3	61	10.0	6.7	2.4
Telephone installers and repairers	215	11.7	8.0	5.5	202	12.1	7.8	4.5
Heating, air conditioning, and refrigeration mechanics	264	.6	6.4	6.8	262	.6	3.7	5.5
Miscellaneous mechanics and repairers	880	4.3	7.7	6.4	874	4.5	8.2	7.8
Office machine repairers	64	2.9	7.0	5.0	60	6.4	7.1	6.6
Millwrights	96	2.1	2.9	2.4	96	2.1	7.6	3.8
Construction trades	5,011	1.9	7.1	7.7	5,098	2.1	7.1	8.2
Supervisors	630	1.5	4.7	4.3	617	2.2	4.2	5.4
Construction trades, except supervisors	4,382	2.0	7.4	8.2	4,481	2.1	7.5	8.6
Brickmasons and stonemasons	193	1.2	12.6	8.6	202	.5	16.3	9.3
Carpet installers	100	.9	11.0	8.6	108	2.3	6.2	9.2
Carpenters	1,388	1.2	5.0	7.7	1,427	1.5	5.2	8.0
Drywall installers	148	1.8	4.2	12.5	149	2.1	6.3	11.9
Electricians	650	1.3	6.0	5.5	701	1.4	4.3	5.9
Electrical power installers and repairers	111	.6	4.7	3.0	101	.4	9.9	2.3
Painters, construction and maintenance	525	5.6	8.2	11.6	525	5.8	7.6	11.8
Plumbers, pipefitters, and steamfitters	491	.8	7.5	7.3	494	.4	7.9	6.7
Concrete and terrazzo finishers	75	.2	28.7	20.4	85	.2	26.6	20.1
Insulation workers	53	2.6	11.4	5.8	54	4.9	15.5	15.3
Roofers	171	.6	10.4	9.8	156	1.2	10.8	9.4
Structural metal workers	58	.2	4.6	7.2	48	.4	7.3	7.9
Extractive occupations	161	3.3	3.7	9.1	144	2.1	5.4	7.5
Precision production occupations	3,951	22.8	7.9	9.4	3,968	23.5	8.6	8.8
Supervisors	1,317	14.9	7.7	6.8	1,361	15.4	8.5	6.8
Precision metalworking	891	6.2	5.0	6.9	896	6.3	6.0	6.8
Tool and die makers	144	1.8	3.8	3.2	145	2.4	2.9	3.7
Machinists	483	3.5	5.4	6.9	497	4.8	6.3	6.5
Sheet-metal workers	127	6.4	5.8	5.7	126	5.7	8.0	4.4
Precision woodworking	102	12.2	8.4	8.7	106	11.8	4.6	9.3
Precision textile, apparel, and furnishings machine workers	299	55.4	8.1	16.1	296	58.1	8.0	17.8
Dressmakers	121	92.6	7.0	15.9	126	94.4	6.8	10.4
Upholsterers	87	26.4	6.8	14.3	84	22.0	3.3	27.9
Precision workers, assorted materials	536	55.6	8.6	13.2	529	56.7	10.0	10.9
Optical goods workers	50	54.2	4.2	6.2	60	61.4	2.6	4.0
Dental laboratory and medical appliance technicians	60	34.0	6.6	7.2	49	32.9	6.6	5.1
Electrical and electronic equipment assemblers	325	68.9	10.1	16.3	305	70.0	12.1	14.1

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1987				1988			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Precision production, craft, and repair—Continued								
Precision food production occupations	438	30.7	12.6	15.0	418	32.4	14.3	12.4
Butchers and meat cutters	271	19.7	15.0	16.2	258	21.2	17.0	12.2
Bakers	123	43.6	9.8	11.1	126	47.8	10.0	11.6
Precision inspectors, testers, and related workers	116	25.6	10.2	8.0	126	28.1	8.8	7.4
Inspectors, testers, and graders	103	23.0	11.3	8.2	113	25.6	9.8	6.9
Plant and system operators	252	4.2	8.1	6.2	236	4.5	7.9	5.8
Stationary engineers	108	3.0	8.2	5.8	103	3.0	8.2	8.9
Operators, fabricators, and laborers	17,486	25.8	15.2	10.8	17,814	25.7	15.0	11.1
Machine operators, assemblers, and inspectors	7,994	41.2	14.9	12.5	8,117	40.8	14.8	13.3
Machine operators and tenders, except precision	5,257	42.6	16.0	13.3	5,362	41.9	15.9	14.0
Metalworking and plastic working machine operators	472	19.8	13.3	8.4	465	17.0	10.9	10.1
Lathe and turning machine operators	60	11.5	4.2	4.1	63	5.8	6.9	8.1
Punching and stamping press machine operators	145	32.5	16.5	5.7	123	29.8	17.6	8.3
Grinding, abrading, buffing, and polishing machine operators	144	14.5	14.8	13.2	141	11.9	9.5	15.1
Metal and plastic processing machine operators	157	22.6	12.9	11.3	170	25.6	16.3	10.4
Molding and casing machine operators	96	30.9	11.8	11.8	102	31.2	19.1	6.3
Woodworking machine operators	153	14.8	12.6	7.5	159	14.4	15.1	4.6
Sawing machine operators	100	11.4	11.7	7.3	105	12.5	16.6	5.1
Printing machine operators	476	26.9	7.3	7.3	505	26.4	7.7	8.2
Printing machine operators	321	14.8	8.1	8.7	339	13.8	9.1	10.1
Typesetters and compositors	76	71.7	3.7	3.8	67	73.9	3.5	1.8
Textile, apparel, and furnishings machine operators	1,334	79.0	22.1	17.5	1,355	78.0	21.0	19.2
Winding and twisting machine operators	80	72.0	34.4	3.9	76	76.7	37.4	4.1
Textile sewing machine operators	755	91.0	18.2	21.6	749	90.1	18.0	22.4
Pressing machine operators	138	64.3	33.0	20.2	146	65.7	28.1	28.3
Laundering and dry cleaning machine operators	195	64.3	23.5	12.4	222	62.3	19.6	15.5
Machine operators, assorted materials	2,634	33.9	15.4	13.6	2,680	33.5	15.6	13.9
Packaging and filling machine operators	403	61.9	19.1	19.9	414	63.6	18.8	21.6
Mixing and blending machine operators	96	9.3	12.2	14.7	102	10.6	22.7	7.7
Separating, filtering, and clarifying machine operators	53	9.4	15.1	4.1	56	3.6	14.1	4.6
Painting and paint spraying machine operators	185	12.5	11.5	15.4	200	14.0	12.6	19.4
Furnace, kiln, and oven operators, except food	95	7.9	14.8	8.2	102	6.4	12.0	5.5
Slicing and cutting machine operators	218	26.9	12.3	17.6	215	28.6	12.2	18.9
Photographic process machine operators	100	54.5	7.8	9.2	98	55.1	11.0	8.5
Fabricators, assemblers, and hand working occupations	1,877	32.9	12.2	11.8	1,906	33.0	12.0	12.0
Welders and cutters	558	4.8	10.7	10.7	555	4.9	8.1	9.6
Assemblers	1,105	43.9	13.6	12.0	1,141	44.2	14.7	13.0
Production inspectors, testers, samplers, and weighers	861	51.0	14.5	9.3	849	51.6	13.9	12.1
Production inspectors, checkers, and examiners	694	52.6	14.3	7.9	683	52.7	13.6	10.6
Production testers	60	27.3	6.9	5.4	63	33.3	11.3	8.1
Graders and sorters, except agricultural	96	54.7	21.5	22.1	96	56.3	18.3	25.2
Transportation and material moving occupations	4,712	8.4	14.8	7.6	4,831	9.0	14.9	7.1
Motor vehicle operators	3,489	10.1	14.8	7.9	3,592	10.8	14.9	7.1
Truckdrivers, heavy	1,822	2.2	13.3	7.2	1,826	2.3	13.8	6.0
Truckdrivers, light	721	9.0	13.2	11.0	782	9.0	12.3	9.0
Drivers-sales workers	226	6.7	5.0	6.1	201	7.1	5.5	6.8
Bus drivers	419	47.5	25.5	5.2	450	48.5	23.2	6.0
Taxi-cab drivers and chauffeurs	194	10.7	21.5	9.9	218	12.5	23.8	11.0
Transportation occupations, except motor vehicles	194	1.9	8.1	3.4	195	2.1	10.8	2.1
Rail transportation occupations	136	1.4	10.3	3.3	137	2.2	12.6	2.5
Locomotive operating occupations	53	1.0	10.5	5.1	51	.5	16.7	1.5
Water transportation occupations	58	3.0	3.1	3.8	58	1.9	6.4	1.2
Material moving equipment operators	1,029	3.8	16.1	7.7	1,043	4.1	15.6	7.9
Operating engineers	184	.8	7.9	6.1	210	1.3	6.9	6.0
Crane and tower operators	81	2.5	17.1	4.8	88	1.7	18.3	5.6
Excavating and loading machine operators	115	.5	8.2	7.5	108	.7	7.7	4.9
Grader, dozer, and scraper operators	92	.7	11.4	1.3	92	.6	9.4	4.9
Industrial truck and tractor equipment operators	428	5.0	24.0	9.3	431	5.7	22.6	10.7
Handlers, equipment cleaners, helpers, and laborers	4,779	17.1	16.0	11.1	4,866	17.2	15.5	11.3
Helpers, construction and extractive occupations	170	5.2	14.3	13.3	156	4.0	13.8	12.5
Helpers, construction trades	156	5.0	14.3	13.1	141	4.0	12.8	13.5
Construction laborers	766	3.2	16.1	13.9	799	3.4	15.1	15.2
Production helpers	71	21.5	14.5	20.1	64	24.3	16.1	16.4
Freight, stock, and material handlers	1,696	16.9	15.9	8.1	1,756	17.5	15.8	8.7
Stock handlers and baggers	873	22.9	11.4	6.9	891	22.8	10.7	7.4
Machine feeders and offbearers	94	35.8	26.0	8.5	110	33.7	23.9	6.1

See footnotes at end of table.

Table 18. Employed civilians by detailed occupation, sex, race, and Hispanic origin, 1983-88—Continued

(Numbers in thousands)

Occupation	1987				1988			
	Total employed	Percent of total:			Total employed	Percent of total:		
		Women	Black	Hispanic origin		Women	Black	Hispanic origin
Handlers, equipment cleaners, helpers, and laborers—Continued								
Garage and service station related occupations	257	7.1	10.5	8.7	246	6.2	10.2	8.4
Vehicle washers and equipment cleaners	214	15.4	20.0	12.3	253	14.1	20.3	15.0
Hand packers and packagers	306	64.8	13.7	15.7	298	65.3	14.4	13.6
Laborers, except construction	1,251	18.3	17.5	11.6	1,248	18.6	15.4	11.5
Farming, forestry, and fishing	3,507	15.8	6.5	13.2	3,437	16.3	6.6	13.0
Farm operators and managers	1,317	14.9	1.4	1.5	1,286	15.0	1.1	1.6
Farmers	1,173	15.1	1.4	1.3	1,154	15.2	.9	1.4
Farm managers	144	13.6	1.4	2.8	133	13.4	3.0	3.5
Other agricultural and related occupations	2,013	17.1	9.6	21.6	1,978	18.2	10.0	21.3
Farm occupations, except managerial	1,035	22.4	8.7	24.4	1,020	23.5	8.6	23.3
Farm workers	968	21.7	8.8	24.2	949	23.3	8.6	23.0
Related agricultural occupations	978	11.5	10.5	18.6	958	12.5	11.5	19.2
Supervisors	72	4.6	5.5	8.4	76	5.0	8.7	13.9
Groundskeepers and gardeners, except farm	803	5.5	11.7	20.5	765	5.2	12.2	20.7
Animal caretakers, except farm	90	62.1	3.9	6.2	101	63.4	8.3	6.3
Forestry and logging occupations	104	5.9	17.1	2.6	117	4.2	11.2	4.2
Timber cutting and logging	72	1.1	21.0	1.8	84	.5	12.1	1.6
Fishers, hunters, and trappers	73	9.1	1.0	6.3	56	7.3	3.1	3.0

[1] Less than 0.05 percent.

NOTE: N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of occupations which cannot be more specifically identified. Generally, data for occupations with fewer than 50,000 employed workers are not published separately but are included in the totals for the appropriate categories shown.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1989			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	117,342	45.2	10.2	7.3
Managerial and professional specialty	30,398	45.2	6.1	3.7
Executive, administrative, and managerial	14,648	39.8	5.7	4.0
Officials and administrators, public administration	519	43.9	10.1	3.8
Administrators, protective service	54	14.6	7.8	2.5
Financial managers	472	42.7	4.0	3.7
Personnel and labor relations managers	128	52.6	6.1	3.7
Purchasing managers	110	25.9	4.7	3.7
Managers, marketing, advertising, and public relations	514	31.0	3.3	2.2
Administrators, education and related fields	585	53.4	9.9	4.0
Managers, medicine and health	188	67.6	6.7	3.1
Managers, properties and real estate	451	43.5	6.7	5.3
Management-related occupations	3,908	50.4	7.1	4.0
Accountants and auditors	1,416	48.6	7.5	3.2
Underwriters and other financial officers	103	65.4	7.5	4.2
Other financial officers	685	48.2	5.6	4.5
Management analysts	183	32.8	4.4	3.3
Personnel, training, and labor relations specialists	426	59.6	8.8	4.5
Buyers, wholesale and retail trade, except farm products	214	48.8	3.2	2.5
Construction inspectors	61	4.7	5.4	3.2
Inspectors and compliance officers, except construction	196	28.1	13.3	6.9
Professional specialty	15,550	50.4	6.6	3.4
Architects	157	20.6	2.1	5.8
Engineers	1,823	7.6	3.6	2.3
Aerospace engineers	112	3.7	3.3	1.2
Chemical engineers	67	15.3	4.6	6.6
Civil engineers	249	5.4	4.2	3.6
Electrical and electronic engineers	571	8.5	3.2	2.2
Industrial engineers	199	11.5	4.9	1.1
Mechanical engineers	310	4.9	3.2	1.6
Mathematical and computer scientists	853	35.7	5.7	3.5
Computer systems analysts and scientists	566	32.4	5.7	3.0
Operations and systems researchers and analysts	239	41.1	5.8	4.9
Natural scientists	413	26.9	3.9	2.7
Chemists, except biochemists	122	27.8	5.9	5.2
Geologists and geodesists	52	15.4	2.9	.5
Biological and life scientists	77	34.6	2.9	2.1
Health diagnosing occupations	854	16.5	3.2	4.4
Physicians	548	17.9	3.3	5.4
Dentists	170	8.6	4.3	2.9
Health assessment and treating occupations	2,242	84.8	7.3	3.1
Registered nurses	1,599	94.2	7.2	3.0
Pharmacists	174	32.3	4.7	2.2
Dietitians	83	90.8	17.1	5.3
Therapists	324	76.3	6.4	3.0
Inhalation therapists	63	52.5	12.5	2.7
Physical therapists	90	77.3	4.8	6.1
Speech therapists	63	88.6	3.3	.9
Physicians' assistants	62	26.6	6.9	6.2
Teachers, college and university	709	38.7	4.3	2.4
Teachers, except college and university	3,936	73.3	9.2	3.7
Prekindergarten and kindergarten	431	97.8	10.1	5.3
Elementary school	1,489	84.7	11.0	3.5
Secondary school	1,220	52.6	7.7	3.4
Special education	257	84.4	11.8	2.2
Teachers, n.e.c.	539	63.6	5.4	4.2
Counselors, educational and vocational	214	60.4	12.0	6.2
Librarians, archivists, and curators	212	83.3	7.3	2.2
Librarians	188	87.3	7.6	2.3
Social scientists and urban planners	374	48.6	6.4	2.7
Economists	122	41.3	4.4	3.5
Psychologists	210	54.0	7.7	2.5
Social, recreation, and religious workers	1,043	48.8	12.4	3.6
Social workers	527	68.1	17.6	4.8
Recreation workers	101	74.4	9.8	3.3
Clergy	336	7.8	7.2	1.8
Religious workers, n.e.c.	79	61.9	2.8	3.6
Lawyers and judges	774	22.3	3.2	3.3

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1989			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Lawyers	741	22.2	3.0	3.4
Writers, artists, entertainers, and athletes	1,921	46.0	4.5	3.9
Authors	82	59.2	1.3	.4
Technical writers	65	48.0	2.3	2.8
Designers	534	51.5	2.8	4.3
Musicians and composers	170	31.5	7.0	5.3
Actors and directors	96	34.6	7.2	3.8
Painters, sculptors, craft-artists, and artist printmakers	229	50.7	2.7	3.8
Photographers	112	30.3	4.8	7.6
Editors and reporters	253	49.2	5.6	1.6
Public relations specialists	159	57.1	5.5	1.3
Announcers	51	13.6	9.7	3.7
Athletes	74	19.4	8.7	6.3
Technical, sales, and administrative support	36,127	64.9	9.3	5.7
Technicians and related support	3,645	48.2	9.5	4.3
Health technologists and technicians	1,276	82.3	14.6	4.6
Clinical laboratory technologists and technicians	308	74.4	14.7	4.1
Dental hygienists	80	99.2	1.7	.9
Health record technologists & technicians	72	91.3	15.5	10.8
Radiologic technicians	124	75.8	10.1	4.3
Licensed practical nurses	414	96.1	19.0	4.4
Engineering and related technologists and technicians	937	19.2	7.7	4.4
Electrical and electronic technicians	326	14.2	7.7	6.1
Drafting occupations	296	20.7	6.2	4.3
Surveying and mapping technicians	70	11.0	6.3	5.6
Science technicians	217	29.4	7.5	4.9
Biological technicians	59	37.3	5.7	7.5
Chemical technicians	74	21.7	9.2	3.7
Technicians, except health, engineering, and science	1,216	38.2	5.9	3.8
Airplane pilots and navigators	109	3.8	.2	2.7
Computer programmers	561	35.2	5.5	3.2
Legal assistants	210	75.7	7.0	5.0
Sales occupations	14,065	49.3	6.4	5.2
Supervisors and proprietors	3,828	34.8	4.6	5.0
Sales representatives, finance and business services	2,371	43.5	4.6	3.4
Insurance sales	535	29.4	5.1	2.8
Real estate sales	772	51.0	3.5	3.4
Securities and financial services sales	302	29.1	2.9	1.1
Advertising and related sales	156	54.2	5.2	3.3
Sales occupations, other business services	607	50.9	6.1	4.9
Sales representatives, commodities, except retail	1,612	20.4	3.1	3.6
Sales workers, retail and personal services	6,186	67.8	9.2	6.5
Sales workers, motor vehicles and boats	300	6.8	3.8	6.5
Sales workers, apparel	449	83.6	8.9	6.6
Sales workers, shoes	107	62.9	13.3	11.5
Sales workers, furniture and home furnishings	152	48.1	3.0	6.3
Sales workers, radio, television, hi-fi, and appliances	203	29.4	6.0	6.1
Sales workers, hardware and building supplies	206	24.2	3.5	3.2
Sales workers, parts	160	7.9	4.5	7.8
Sales workers, other commodities	1,522	71.8	6.6	5.4
Sales counter clerks	190	71.3	9.2	4.5
Cashiers	2,473	81.8	13.0	7.4
Street and door-to-door sales workers	323	75.8	6.9	6.2
News vendors	101	40.7	8.8	4.2
Sales-related occupations	68	74.6	3.8	1.8
Administrative support, including clerical	18,416	80.0	11.4	6.4
Supervisors	736	58.2	12.6	6.1
General office	446	65.9	12.8	5.3
Financial records processing	82	70.2	4.4	3.9
Supervisors, distribution, scheduling, and adjusting clerks	169	35.1	17.3	9.2
Computer equipment operators	876	64.3	14.2	6.1
Computer operators	870	64.2	14.3	6.0
Secretaries, stenographers, and typists	4,788	98.3	8.5	5.0
Secretaries	4,010	99.1	7.3	4.6
Typists	731	95.0	14.8	7.2
Information clerks	1,451	89.6	10.1	7.4
Interviewers	183	83.9	14.1	6.7
Hotel clerks	89	73.6	9.6	8.6

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1989			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Transportation ticket and reservation agents	112	66.5	16.6	7.2
Receptionists	815	97.2	7.4	7.7
Records processing occupations, except financial	851	82.3	14.7	7.5
Order clerks	199	80.3	14.5	6.2
Personnel clerks, except payroll and timekeeping	77	91.2	20.8	4.8
Library clerks	144	78.3	10.3	4.5
File clerks	284	82.2	17.2	10.4
Records clerks	116	85.0	11.4	8.3
Financial records processing	2,394	91.0	6.3	5.0
Bookkeepers, accounting, and auditing clerks	1,926	91.7	5.1	4.6
Payroll and timekeeping clerks	177	90.5	11.0	6.6
Billing clerks	159	90.6	9.6	6.8
Cost and rate clerks	83	77.3	13.6	5.1
Duplicating, mail and other office machine operators	65	62.6	13.9	9.1
Communications equipment operators	210	88.6	17.7	6.4
Telephone operators	201	89.8	17.7	6.4
Mail and message distributing occupations	952	36.5	20.2	7.8
Postal clerks, except mail carriers	313	43.7	30.1	6.8
Mail carriers, postal service	327	26.1	11.2	7.6
Mail clerks, except postal service	179	50.8	23.5	11.4
Messengers	133	26.0	14.4	6.0
Material recording, scheduling, and distributing clerks	1,745	40.2	12.3	8.4
Dispatchers	189	51.5	9.6	4.4
Production coordinators	196	46.4	8.5	6.1
Traffic, shipping, and receiving clerks	550	27.6	14.2	11.6
Stock and inventory clerks	561	41.2	13.2	8.2
Meter readers	50	17.1	18.1	2.6
Weighers, measurers, and checkers	76	46.6	9.2	6.9
Expediters	96	67.5	9.0	9.0
Adjusters and investigators	1,079	74.0	12.1	6.0
Insurance adjusters, examiners, and investigators	325	72.0	12.0	4.6
Investigators and adjusters, except insurance	546	75.6	12.3	6.5
Eligibility clerks, social welfare	72	84.5	11.1	7.8
Bill and account collectors	136	67.0	11.9	6.2
Miscellaneous administrative support	3,269	85.2	14.2	7.2
General office clerks	810	81.9	12.8	7.1
Bank tellers	503	91.0	9.9	6.9
Data entry keyers	414	87.8	20.2	8.5
Statistical clerks	86	79.7	14.2	4.2
Teachers' aides	440	95.1	16.0	9.3
Service occupations	15,556	60.4	17.6	10.8
Private household	872	95.9	25.1	15.8
Child care workers	358	97.1	8.7	10.0
Cleaners and servants	464	94.9	36.5	19.5
Protective service	1,960	15.6	16.8	5.8
Supervisors, protective service	169	8.3	12.2	2.8
Supervisors, police and detectives	83	6.3	6.0	1.7
Firefighting and fire prevention	208	3.9	11.7	4.0
Firefighting occupations	188	3.5	12.0	4.4
Police and detectives	803	12.6	15.1	4.9
Police and detectives, public service	461	10.2	13.1	4.7
Sheriffs, bailiffs, and other law enforcement officers	112	12.8	7.3	4.5
Correctional institution officers	230	17.4	22.8	5.5
Guards	781	23.3	20.8	7.8
Guards and police, except public service	658	15.9	23.3	8.6
Service occupations, except private household and protective service	12,724	64.8	17.2	11.3
Food preparation and service occupations	5,351	60.3	12.5	12.0
Supervisors	356	69.8	12.3	8.9
Bartenders	322	50.6	3.4	6.1
Waiters and waitresses	1,389	80.8	4.7	7.6
Cooks, except short order	1,713	49.4	18.2	14.2
Short-order cooks	91	30.9	22.4	9.1
Food counter, fountain, and related occupations	354	72.7	10.5	9.6
Kitchen workers, food preparation	126	73.1	18.5	11.9
Waiters' and waitresses' assistants	352	40.1	14.0	23.0
Miscellaneous food preparation	648	50.0	16.4	16.0
Health service occupations	2,042	90.0	26.4	6.5
Dental assistants	187	98.9	7.4	9.0
Health aides, except nursing	416	84.5	17.7	7.0

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1989			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Nursing aides, orderlies, and attendants	1,439	90.4	31.4	6.0
Cleaning and building service occupations	2,997	42.7	22.9	15.8
Supervisors	154	38.4	24.1	13.2
Maids and housemen	646	83.6	26.7	17.2
Janitors and cleaners	2,148	31.6	21.8	15.7
Personal service occupations	2,333	81.8	12.4	7.9
Barbers	81	17.1	15.8	9.2
Hairdressers and cosmetologists	736	89.3	9.0	7.9
Attendants, amusement and recreation facilities	133	47.9	10.0	5.5
Public transportation attendants	86	83.0	14.7	3.2
Welfare service aides	95	89.8	28.3	8.7
Child care workers	861	96.3	12.4	7.9
Precision production, craft, and repair	13,818	8.6	7.9	8.5
Mechanics and repairers	4,550	3.4	7.7	7.4
Supervisors	285	7.1	5.9	3.9
Mechanics and repairers, except supervisors	4,265	3.1	7.8	7.7
Vehicle and mobile equipment mechanics and repairers	1,793	.8	7.2	9.3
Automobile mechanics	880	.7	8.2	11.6
Bus, truck, and stationery engine mechanics	320	.3	6.5	6.4
Aircraft engine mechanics	122	2.6	9.2	7.5
Small engine repairers	65	1.2	3.0	3.2
Automobile body and related repairers	191	.8	5.2	9.4
Heavy equipment mechanics	160	.1	6.4	6.5
Industrial machinery repairers	539	3.0	8.4	7.4
Electrical and electronic equipment repairers	680	7.7	9.6	6.0
Electronic repairers, communications, and industrial equipment	165	6.7	9.0	8.2
Data processing equipment repairers	152	8.6	11.7	4.5
Telephone line installers and repairers	54	4.2	7.3	5.9
Telephone installers and repairers	193	10.8	8.1	4.5
Heating, air conditioning, and refrigeration mechanics	279	.5	6.0	4.7
Miscellaneous mechanics and repairers	948	5.0	7.8	6.8
Office machine repairers	67	8.2	6.0	2.6
Millwrights	101	3.6	3.5	4.1
Construction trades	5,142	2.1	7.2	8.8
Supervisors	662	1.9	4.4	6.2
Construction trades, except supervisors	4,479	2.1	7.6	9.2
Brickmasons and stonemasons	219	.6	15.6	5.8
Tile setters, hard and soft	57	.6	4.9	14.5
Carpet installers	109	1.3	5.9	9.5
Carpenters	1,369	1.2	5.4	8.7
Drywall installers	155	1.6	3.8	17.7
Electricians	702	1.8	7.0	5.3
Electrical power installers and repairers	104	.4	8.4	1.7
Painters, construction and maintenance	543	6.0	9.1	13.2
Plumbers, pipefitters, and steamfitters	456	.8	6.9	5.3
Concrete and terrazzo finishers	77	.6	19.7	25.4
Insulation workers	64	4.3	6.8	20.7
Roofers	178	.6	11.1	12.4
Structural metal workers	63	.4	3.3	8.5
Extractive occupations	138	2.6	6.2	7.3
Precision production occupations	3,988	23.2	9.0	9.4
Supervisors	1,353	14.7	8.1	7.7
Precision metalworking	911	6.4	6.0	7.1
Tool and die makers	148	2.6	4.9	3.6
Machinists	479	4.2	5.4	7.1
Precious stones and metals workers	52	33.1	3.1	18.2
Sheet-metal workers	141	6.9	8.7	7.2
Precision woodworking occupations	95	13.9	5.2	10.4
Cabinet makers and bench carpenters	56	4.8	1.1	12.2
Precision textile, apparel, and furnishings machine workers	277	57.9	10.0	12.9
Dressmakers	117	94.4	9.7	6.8
Tailors	60	41.4	7.7	21.3
Upholsterers	71	24.0	7.7	17.5
Precision workers, assorted materials	565	54.7	9.6	12.3
Optical goods workers	80	61.4	3.0	9.8
Dental laboratory and medical appliance technicians	51	27.0	7.3	3.1
Electrical and electronic equipment assemblers	316	67.5	12.9	14.8
Precision food production occupations	414	34.5	16.5	16.0
Butchers and meat cutters	266	26.7	19.0	17.3

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1989			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Bakers	113	44.0	12.8	12.6
Precision inspectors, testers, and related workers	125	24.6	8.8	7.0
Inspectors, testers, and graders	113	23.9	9.1	6.5
Plant and system operators	249	5.0	11.7	6.1
Water and sewage treatment plant operators	55	5.9	9.3	3.5
Stationary engineers	109	3.6	10.2	9.0
Operators, fabricators, and laborers	18,022	26.0	15.1	11.4
Machine operators, assemblers, and inspectors	8,248	40.9	14.6	13.6
Machine operators and tenders, except precision	5,381	41.7	15.4	14.3
Metalworking and plastic working machine operators	470	18.2	9.7	10.3
Lathe and turning machine operators	55	9.0	4.6	14.2
Punching and stamping press machine operators	120	30.3	13.3	8.4
Grinding, abrading, buffing, and polishing machine operators	143	16.0	10.7	14.7
Metal and plastic processing machine operators	160	23.9	16.2	10.3
Molding and casting machine operators	97	29.3	16.9	7.4
Woodworking machine operators	165	14.1	15.7	5.0
Sawing machine operators	96	11.0	17.1	3.2
Printing machine operators	474	27.4	7.5	9.2
Printing machine operators	324	15.2	9.5	10.0
Typesetters and compositors	66	70.2	1.4	2.1
Textile, apparel, and furnishings machine operators	1,356	78.3	20.7	18.6
Winding and twisting machine operators	77	70.2	33.7	3.0
Knitting, looping, taping, weaving machine operators	52	64.1	31.4	6.0
Textile sewing machine operators	757	90.5	16.3	21.7
Pressing machine operators	134	70.2	30.3	21.7
Laundering and dry cleaning machine operators	220	63.2	21.6	20.8
Machine operators, assorted materials	2,736	32.9	15.0	14.7
Packaging and filling machine operators	442	61.8	18.6	22.0
Mixing and blending machine operators	110	8.3	20.1	12.6
Separating, filtering, and clarifying machine operators	62	9.8	11.8	2.1
Painting and paint spraying machine operators	186	14.4	11.0	15.4
Furnace, kiln, and oven operators, except food	96	3.7	11.5	7.9
Crushing and grinding machine operators	58	31.7	10.0	12.3
Slicing and cutting machine operators	219	26.1	12.6	19.6
Photographic process machine operators	91	56.1	8.6	4.9
Fabricators, assemblers, and hand working occupations	2,011	33.5	13.0	12.7
Welders and cutters	612	6.6	9.5	11.3
Assemblers	1,177	44.1	15.6	13.4
Production inspectors, testers, samplers, and weighers	856	52.6	13.4	11.0
Production inspectors, checkers, and examiners	688	53.4	12.8	9.2
Production testers	60	36.3	7.9	9.3
Graders and sorters, except agricultural	102	58.0	21.0	23.5
Transportation and material moving occupations	4,886	9.2	14.6	7.6
Motor vehicle operators	3,602	11.2	14.7	7.8
Supervisors	79	15.9	9.1	7.0
Truck drivers, heavy	1,850	1.9	14.2	6.5
Truck drivers, light	766	8.9	12.0	9.3
Drivers-sales workers	192	6.4	5.4	7.0
Bus drivers	440	54.8	22.6	5.4
Taxi-cab drivers and chauffeurs	220	13.1	20.1	18.1
Transportation occupations, except motor vehicles	177	2.7	8.3	3.8
Rail transportation occupations	129	2.8	10.7	3.0
Material moving equipment operators	1,107	3.8	15.2	7.5
Operating engineers	220	1.3	10.2	3.7
Crane and tower operators	99	.8	18.2	2.6
Excavating and loading machine operators	128	.8	7.5	3.6
Grader, dozer, and scraper operators	96	1.3	9.1	6.4
Industrial truck and tractor equipment operators	452	5.6	21.2	10.7
Handlers, equipment cleaners, helpers, and laborers	4,888	17.9	16.4	11.6
Helpers, construction and extractive occupations	133	4.4	13.0	14.6
Helpers, construction trades	123	4.1	13.0	15.6
Construction laborers	755	3.0	15.5	15.1
Production helpers	82	26.8	12.5	16.7
Freight, stock, and material handlers	1,743	17.3	16.9	8.8
Garbage collectors	50	4.1	38.1	8.4
Stock handlers and baggers	900	23.2	12.9	7.6

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1989			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Machine feeders and offbearers	91	31.9	18.1	6.2
Garage and service station related occupations	230	5.5	11.6	10.0
Vehicle washers and equipment cleaners	281	12.7	22.5	18.9
Hand packers and packagers	327	64.1	14.9	14.1
Laborers, except construction	1,288	20.4	16.3	10.8
Farming, forestry, and fishing	3,421	16.5	6.1	13.9
Farm operators and managers	1,269	15.4	.8	1.7
Farmers	1,118	15.3	.7	1.3
Farm managers	150	15.7	1.7	4.6
Other agricultural and related occupations	1,976	18.1	9.2	22.0
Farm occupations, except managerial	964	23.0	8.1	26.1
Farm workers	893	22.9	8.2	26.1
Related agricultural occupations	1,012	13.5	10.3	18.1
Supervisors	73	6.0	6.7	11.0
Groundskeepers and gardeners, except farm	816	6.1	11.0	19.8
Animal caretakers, except farm	104	65.2	7.8	4.0
Forestry and logging occupations	118	6.2	11.8	11.1
Timber cutting and logging	82	1.6	15.3	1.8
Fishers, hunters, and trappers	59	7.0	5.2	7.6

NOTE: N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of occupations which cannot be more specifically identified. Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	117,914	45.4	10.1	7.5
Managerial and professional specialty	30,657	45.8	6.2	3.6
Executive, administrative, and managerial	14,839	40.0	5.7	3.9
Officials and administrators, public administration	503	42.4	9.2	3.2
Administrators, protective service	56	19.1	9.1	1.0
Financial managers	492	44.3	4.1	2.9
Personnel and labor relations managers	122	55.1	6.7	3.2
Purchasing managers	110	31.9	4.8	3.5
Managers, marketing, advertising, and public relations	522	31.1	2.9	3.1
Administrators, education and related fields	554	54.4	9.5	3.8
Managers, medicine and health	175	66.5	7.5	2.9
Managers, properties and real estate	437	45.2	6.5	5.1
Management-related occupations	3,893	49.9	7.6	4.1
Accountants and auditors	1,438	50.8	7.4	3.8
Underwriters	94	67.6	8.1	5.2
Other financial officers	697	45.0	6.1	4.8
Management analysts	197	34.0	6.5	2.0
Personnel, training, and labor relations specialists	401	60.8	11.9	4.2
Buyers, wholesale and retail trade, except farm products	219	50.7	3.8	4.3
Construction inspectors	70	5.1	7.3	4.1
Inspectors and compliance officers, except construction	196	26.9	13.9	4.0
Professional specialty	15,818	51.2	6.7	3.4
Architects	142	18.4	.9	3.5
Engineers	1,862	8.0	3.6	2.8
Aerospace engineers	109	7.3	4.8	2.4
Chemical engineers	71	10.9	1.7	2.2
Civil engineers	234	5.0	4.0	3.2
Electrical and electronic engineers	581	8.7	3.8	3.3
Industrial engineers	204	11.9	4.4	3.2
Mechanical engineers	316	5.4	3.5	1.9
Mathematical and computer scientists	866	36.5	6.5	3.4
Computer systems analysts and scientists	605	34.5	7.0	3.3
Operations and systems researchers and analysts	212	41.5	5.2	4.2
Natural scientists	401	26.0	2.7	3.8
Chemists, except biochemists	125	27.0	4.6	5.9
Geologists and geodesists	53	14.3	.6	.4
Biological and life scientists	74	40.9	2.7	3.1
Health diagnosing occupations	871	17.8	3.0	3.7
Physicians	575	19.3	3.0	4.5
Dentists	162	9.5	4.9	3.5
Health assessment and treating occupations	2,320	86.2	7.4	2.8
Registered nurses	1,673	94.5	7.4	2.5
Pharmacists	171	37.2	4.1	4.1
Dietitians	83	95.0	20.1	3.5
Therapists	325	76.6	6.0	2.9
Inhalation therapists	62	60.1	11.7	2.8
Physical therapists	91	75.0	4.1	2.7
Speech therapists	63	88.1	2.8	3.3
Physicians' assistants	67	39.6	6.4	5.2
Teachers, college and university	765	37.7	4.5	2.5
Teachers, except college and university	3,993	73.7	8.7	3.5
Prekindergarten and kindergarten	456	98.4	10.7	5.7
Elementary school	1,506	85.2	9.7	3.2
Secondary school	1,209	53.1	7.1	3.3
Special education	271	84.8	11.8	2.2
Teachers, n.e.c.	552	61.0	6.5	3.2
Counselors, educational and vocational	216	61.9	16.3	4.1
Librarians, archivists, and curators	211	81.1	5.3	3.3
Librarians	192	83.3	5.5	3.3
Social scientists and urban planners	363	51.5	5.4	3.3
Economists	114	43.8	4.0	3.3
Psychologists	210	58.4	6.6	3.6
Social, recreation, and religious workers	1,085	50.4	15.2	4.6
Social workers	564	68.2	21.8	6.1
Recreation workers	100	70.9	14.7	6.1
Clergy	325	9.6	6.9	2.1
Religious workers, n.e.c.	96	62.1	4.8	2.9
Lawyers and judges	756	20.8	3.4	2.7

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Lawyers	729	20.6	3.2	2.8
Writers, artists, entertainers, and athletes	1,941	47.4	4.5	4.0
Authors	84	59.9	2.3	.7
Technical writers	65	47.0	1.6	2.1
Designers	531	53.3	2.6	4.4
Musicians and composers	162	31.9	9.6	4.5
Actors and directors	97	36.5	5.9	1.9
Painters, sculptors, craft-artists, and artist printmakers	217	51.2	2.8	4.5
Photographers	123	27.8	2.9	5.5
Editors and reporters	280	52.0	3.8	2.9
Public relations specialists	162	58.7	7.7	2.8
Announcers	52	18.5	6.9	2.7
Athletes	74	26.4	9.7	4.3
Technical, sales, and administrative support	36,675	64.7	9.2	5.8
Technicians and related support	3,842	49.2	9.1	4.3
Health technologists and technicians	1,303	83.5	14.1	4.5
Clinical laboratory technologists and technicians	297	76.3	15.1	4.1
Dental hygienists	87	99.1	2.5	3.0
Health record technologists & technicians	69	94.0	15.4	8.1
Radiologic technicians	122	76.4	12.8	4.8
Licensed practical nurses	443	96.3	17.6	3.8
Engineering and related technologists and technicians	980	19.8	7.2	4.8
Electrical and electronic technicians	352	15.4	8.2	5.8
Drafting occupations	282	18.9	6.4	5.1
Surveying and mapping technicians	75	6.1	3.4	3.3
Science technicians	240	31.9	7.5	7.2
Biological technicians	68	40.7	4.6	9.0
Chemical technicians	84	28.1	10.8	7.1
Technicians, except health, engineering, and science	1,320	40.2	5.7	3.1
Airplane pilots and navigators	114	5.1	.6	3.3
Computer programmers	594	36.0	5.8	2.5
Legal assistants	229	78.8	6.1	3.7
Sales occupations	14,191	49.2	6.4	5.3
Supervisors and proprietors	3,812	34.8	4.5	4.4
Sales representatives, finance and business services	2,431	42.9	4.4	3.6
Insurance sales	604	32.7	5.2	3.5
Real estate sales	752	51.1	3.0	3.6
Securities and financial services sales	300	23.4	3.6	3.2
Advertising and related sales	154	50.9	4.4	2.8
Sales occupations, other business services	620	50.3	5.6	4.0
Sales representatives, commodities, except retail	1,637	22.0	2.6	3.3
Sales workers, retail and personal services	6,239	67.4	9.5	7.0
Sales workers, motor vehicles and boats	306	9.0	4.0	4.3
Sales workers, apparel	455	82.1	8.4	8.4
Sales workers, shoes	104	60.2	13.5	9.3
Sales workers, furniture and home furnishings	152	48.6	4.4	6.1
Sales workers, radio, television, hi-fi, and appliances	199	28.2	5.7	7.8
Sales workers, hardware and building supplies	204	21.0	4.1	5.3
Sales workers, parts	156	8.8	4.4	4.5
Sales workers, other commodities	1,498	72.5	6.8	5.7
Sales counter clerks	197	69.4	9.1	5.7
Cashiers	2,492	81.4	13.5	8.4
Street and door-to-door sales workers	363	72.5	8.1	6.2
News vendors	115	39.8	8.3	5.8
Sales-related occupations	72	63.7	2.5	3.4
Administrative support, including clerical	18,641	79.8	11.4	6.5
Supervisors	771	58.3	11.8	6.5
General office	475	66.4	12.0	6.7
Financial records processing	89	74.2	5.8	5.4
Supervisors, distribution, scheduling, and adjusting clerks	165	31.5	14.2	7.0
Computer equipment operators	815	65.7	13.1	6.9
Computer operators	808	65.7	12.9	6.9
Secretaries, stenographers, and typists	4,655	98.3	8.6	5.4
Secretaries	3,956	99.0	7.6	5.2
Typists	640	95.5	15.1	7.3
Information clerks	1,524	88.3	9.5	7.3
Interviewers	204	81.2	11.5	7.9
Hotel clerks	92	70.6	9.5	7.2

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Transportation ticket and reservation agents	121	60.2	12.2	8.7
Receptionists	851	97.0	8.1	6.7
Records processing occupations, except financial	917	81.3	14.1	7.2
Order clerks	205	77.9	15.1	6.5
Personnel clerks, except payroll and timekeeping	79	88.6	21.7	7.3
Library clerks	166	76.2	9.1	5.0
File clerks	299	83.8	14.0	9.0
Records clerks	141	81.4	14.7	7.5
Financial records processing	2,418	91.6	6.2	5.1
Bookkeepers, accounting, and auditing clerks	1,912	92.2	5.2	5.0
Payroll and timekeeping clerks	195	91.0	11.5	3.6
Billing clerks	184	92.1	8.7	6.3
Cost and rate clerks	77	80.6	8.4	5.6
Duplicating, mail and other office machine operators	72	62.4	19.3	6.1
Communications equipment operators	222	87.2	19.9	7.1
Telephone operators	208	89.0	19.7	7.2
Mail and message distributing occupations	974	35.9	20.0	6.3
Postal clerks, except mail carriers	296	45.2	25.1	4.7
Mail carriers, postal service	339	24.9	14.4	6.1
Mail clerks, except postal service	190	47.0	23.8	7.7
Messengers	150	28.2	17.9	7.9
Material recording, scheduling, and distributing clerks	1,838	41.9	12.6	8.0
Dispatchers	224	54.8	9.2	4.4
Production coordinators	199	49.3	7.4	4.5
Traffic, shipping, and receiving clerks	546	26.8	15.3	11.7
Stock and inventory clerks	598	43.2	13.3	8.0
Meter readers	41	15.2	9.9	3.4
Weighers, measurers, and checkers	77	45.5	14.6	7.6
Expediters	127	66.7	11.1	4.9
Adjusters and investigators	1,129	75.1	12.9	5.6
Insurance adjusters, examiners, and investigators	353	72.2	12.1	3.9
Investigators and adjusters, except insurance	537	76.6	13.1	6.7
Eligibility clerks, social welfare	88	90.1	14.7	4.0
Bill and account collectors	151	67.5	13.1	6.7
Miscellaneous administrative support	3,307	84.6	14.0	7.7
General office clerks	772	81.8	13.1	7.0
Bank tellers	468	90.4	9.9	7.0
Data entry keyers	488	87.2	19.5	8.0
Statistical clerks	88	72.3	12.9	6.7
Teachers' aides	493	94.5	14.1	11.8
Service occupations	15,759	60.1	17.3	11.2
Private household	782	96.3	24.7	19.7
Child care workers	314	97.9	9.8	13.3
Cleaners and servants	407	95.5	35.6	23.8
Protective service	1,988	14.6	16.6	5.9
Supervisors, protective service	171	8.0	13.6	4.1
Supervisors, police and detectives	86	8.6	12.9	2.4
Firefighting and fire prevention	220	2.4	11.0	4.4
Firefighting occupations	205	1.2	11.5	4.5
Police and detectives	829	13.8	16.0	5.3
Police and detectives, public service	473	12.1	13.5	5.5
Sheriffs, bailiffs, and other law enforcement officers	114	12.8	11.8	5.7
Correctional institution officers	242	17.7	22.8	4.7
Guards	768	20.5	19.4	7.4
Guards and police, except public service	669	14.8	21.2	7.8
Service occupations, except private household and protective service	12,989	64.9	17.0	11.5
Food preparation and service occupations	5,359	59.5	12.4	12.5
Supervisors	344	67.1	10.0	9.2
Bartenders	307	55.6	3.6	6.7
Waiters and waitresses	1,392	80.8	4.7	7.6
Cooks, except short order	1,736	47.7	18.3	14.6
Short-order cooks	77	32.7	25.5	10.5
Food counter, fountain, and related occupations	325	72.7	11.5	7.3
Kitchen workers, food preparation	128	70.7	12.8	12.5
Waiters' and waitresses' assistants	360	39.1	16.0	21.4
Miscellaneous food preparation	689	50.0	15.4	19.4
Health service occupations	2,087	90.2	26.3	6.4
Dental assistants	187	98.7	5.6	7.4
Health aides, except nursing	448	84.8	21.0	5.6

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Nursing aides, orderlies, and attendants	1,452	90.8	30.7	6.5
Cleaning and building service occupations	3,118	44.0	22.4	16.7
Supervisors	147	37.6	24.5	10.4
Maids and housemen	727	82.0	24.8	21.7
Janitors and cleaners	2,191	32.8	21.8	15.7
Personal service occupations	2,425	81.6	12.0	7.3
Barbers	93	18.7	17.4	9.9
Hairdressers and cosmetologists	734	89.8	9.2	7.1
Attendants, amusement and recreation facilities	145	40.2	9.1	5.7
Public transportation attendants	100	83.2	11.2	6.0
Welfare service aides	95	92.1	24.1	13.7
Child care workers	899	97.0	12.1	6.4
Precision production, craft, and repair	13,641	8.5	7.8	8.5
Mechanics and repairers	4,448	3.6	8.1	7.0
Supervisors	251	7.5	5.8	3.8
Mechanics and repairers, except supervisors	4,198	3.3	8.3	7.2
Vehicle and mobile equipment mechanics and repairers	1,768	.9	7.5	8.4
Automobile mechanics	862	.8	8.7	9.4
Bus, truck, and stationery engine mechanics	315	.4	6.6	6.0
Aircraft engine mechanics	110	2.8	9.8	8.4
Small engine repairers	67	.2	4.5	5.3
Automobile body and related repairers	201	.7	7.1	11.1
Heavy equipment mechanics	155	.7	4.8	5.2
Industrial machinery repairers	496	3.0	8.3	6.1
Electrical and electronic equipment repairers	711	8.6	10.6	6.0
Electronic repairers, communications, and industrial equipment	182	7.4	12.0	7.9
Data processing equipment repairers	157	11.4	10.6	5.6
Telephone line installers and repairers	62	6.9	8.6	8.1
Telephone installers and repairers	193	11.3	9.7	3.8
Heating, air conditioning, and refrigeration mechanics	267	.5	6.4	4.9
Miscellaneous mechanics and repairers	932	4.8	8.3	7.0
Office machine repairers	76	5.4	6.7	5.6
Millwrights	94	2.8	4.6	2.3
Construction trades	5,147	1.9	6.9	8.9
Supervisors	657	1.5	4.4	4.6
Construction trades, except supervisors	4,489	1.9	7.3	9.5
Brickmasons and stonemasons	193	.2	14.4	10.7
Tile setters, hard and soft	68	2.0	4.9	14.3
Carpet installers	109	2.1	4.2	11.2
Carpenters	1,360	1.3	4.8	8.7
Drywall installers	153	1.0	5.1	15.5
Electricians	698	1.7	6.2	5.2
Electrical power installers and repairers	121	1.7	8.2	4.2
Painters, construction and maintenance	549	5.6	9.5	13.3
Plumbers, pipefitters, and steamfitters	455	.9	6.6	6.5
Concrete and terrazzo finishers	71	.6	23.1	23.7
Insulation workers	54	1.5	10.9	19.4
Roofers	212	.3	8.5	13.6
Structural metal workers	61	.2	3.7	8.0
Extractive occupations	149	1.9	6.9	6.9
Precision production occupations	3,896	23.1	8.6	9.8
Supervisors	1,308	16.2	8.5	8.0
Precision metalworking	908	6.6	6.1	7.4
Tool and die makers	152	1.6	5.1	2.3
Machinists	488	3.9	6.1	7.9
Precious stones and metals workers	47	37.9	1.0	16.4
Sheet-metal workers	122	6.0	6.7	8.4
Precision woodworking occupations	96	13.6	3.3	8.4
Cabinet makers and bench carpenters	56	3.9	1.5	6.3
Precision textile, apparel, and furnishings machine workers	249	60.8	8.7	13.8
Dressmakers	112	96.4	9.9	11.8
Tailors	49	43.0	6.8	21.4
Upholsterers	66	25.1	8.3	12.6
Precision workers, assorted materials	526	54.3	8.9	12.8
Optical goods workers	62	57.5	5.3	6.9
Dental laboratory and medical appliance technicians	62	36.4	7.6	7.2
Electrical and electronic equipment assemblers	293	66.7	10.5	14.8
Precision food production occupations	419	32.7	12.9	19.0
Butchers and meat cutters	259	22.1	13.9	21.8

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Bakers	117	44.3	12.0	15.9
Precision inspectors, testers, and related workers	121	25.2	10.7	9.1
Inspectors, testers, and graders	112	24.9	10.3	9.2
Plant and system operators	270	4.2	11.4	4.1
Water and sewage treatment plant operators	61	2.2	9.7	3.3
Stationary engineers	117	3.6	11.8	3.8
Operators, fabricators, and laborers	17,775	25.5	15.0	12.2
Machine operators, assemblers, and inspectors	8,071	40.0	14.4	13.9
Machine operators and tenders, except precision	5,286	41.0	15.5	14.9
Metalworking and plastic working machine operators	439	18.0	8.9	10.9
Lathe and turning machine operators	57	8.5	5.5	12.2
Punching and stamping press machine operators	111	29.2	13.2	13.6
Grinding, abrading, buffing, and polishing machine operators	129	17.2	9.1	11.7
Metal and plastic processing machine operators	170	21.4	12.7	12.8
Molding and casting machine operators	101	29.5	13.5	10.3
Woodworking machine operators	168	13.2	13.1	10.9
Sawing machine operators	110	12.6	13.4	9.0
Printing machine operators	459	26.1	6.3	9.6
Printing machine operators	309	14.4	7.5	10.4
Typesetters and compositors	65	68.0	4.8	8.8
Textile, apparel, and furnishings machine operators	1,287	78.3	20.1	19.9
Winding and twisting machine operators	81	72.6	28.7	4.1
Textile sewing machine operators	710	89.1	16.4	23.1
Pressing machine operators	131	69.0	26.8	27.9
Laundering and dry cleaning machine operators	202	66.5	21.5	18.2
Machine operators, assorted materials	2,740	32.6	16.3	14.5
Packaging and filling machine operators	454	60.5	19.8	23.7
Mixing and blending machine operators	113	11.8	16.9	16.4
Separating, filtering, and clarifying machine operators	62	10.6	12.2	3.3
Painting and paint spraying machine operators	193	13.1	11.2	14.5
Furnace, kiln, and oven operators, except food	104	5.0	15.3	5.3
Crushing and grinding machine operators	48	31.3	16.1	10.6
Slicing and cutting machine operators	197	24.9	13.5	16.9
Photographic process machine operators	92	50.9	6.4	6.3
Fabricators, assemblers, and hand working occupations	1,951	32.5	11.8	12.7
Welders and cutters	593	4.0	8.8	12.2
Assemblers	1,130	43.5	14.3	12.8
Production inspectors, testers, samplers, and weighers	834	51.4	13.5	10.4
Production inspectors, checkers, and examiners	667	52.2	12.8	8.2
Production testers	54	36.0	14.4	2.9
Graders and sorters, except agricultural	106	55.1	16.3	28.6
Transportation and material moving occupations	4,849	9.0	15.4	8.5
Motor vehicle operators	3,589	10.8	15.4	8.6
Supervisors	76	18.6	9.4	7.6
Truck drivers, heavy	1,866	2.1	14.2	7.5
Truck drivers, light	741	8.5	11.8	10.6
Drivers-sales workers	200	9.3	9.3	6.5
Bus drivers	443	51.6	23.4	6.9
Taxi-cab drivers and chauffeurs	208	9.5	25.3	15.0
Transportation occupations, except motor vehicles	171	3.0	10.8	5.1
Rail transportation occupations	119	3.6	12.6	4.6
Material moving equipment operators	1,089	3.9	16.4	8.9
Operating engineers	224	.8	10.9	8.5
Crane and tower operators	92	1.0	16.3	5.0
Excavating and loading machine operators	107	.6	9.1	6.3
Grader, dozer, and scraper operators	101	1.4	6.4	8.6
Industrial truck and tractor equipment operators	446	5.7	23.5	10.5
Handlers, equipment cleaners, helpers, and laborers	4,855	17.7	15.7	12.9
Helpers, construction and extractive occupations	137	5.7	15.8	17.8
Helpers, construction trades	126	5.7	16.9	18.9
Construction laborers	774	3.2	13.2	16.3
Production helpers	81	18.5	13.7	23.3
Freight, stock, and material handlers	1,716	19.1	16.4	10.1
Stock handlers and baggers	916	25.0	12.6	9.9
Machine feeders and offbearers	87	37.0	20.7	8.7
Garage and service station related occupations	220	4.7	11.3	7.1

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1990			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Vehicle washers and equipment cleaners	240	13.5	23.0	19.8
Hand packers and packagers	305	62.0	15.1	18.0
Laborers, except construction	1,340	18.8	16.0	12.0
Farming, forestry, and fishing	3,408	16.0	6.1	14.2
Farm operators and managers	1,238	15.7	.9	1.7
Farmers	1,085	15.5	.8	1.4
Farm managers	152	17.6	1.4	4.1
Other agricultural and related occupations	1,978	17.1	9.1	22.8
Farm occupations, except managerial	930	21.7	7.8	27.1
Farm workers	851	21.0	8.2	26.9
Related agricultural occupations	1,048	13.1	10.2	19.0
Supervisors	67	7.1	2.5	11.6
Groundskeepers and gardeners, except farm	852	5.7	11.7	20.1
Animal caretakers, except farm	107	63.8	3.9	8.1
Forestry and logging occupations	129	5.7	10.1	5.4
Timber cutting and logging	98	1.7	11.4	1.4
Fishers, hunters, and trappers	63	4.7	7.0	6.0

NOTE: N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of occupations which cannot be more specifically identified. Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1991			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	116,877	45.6	10.1	7.5
Managerial and professional specialty	31,012	46.3	6.3	3.7
Executive, administrative, and managerial	14,954	40.6	5.7	4.0
Officials and administrators, public administration	511	45.9	11.3	3.6
Administrators, protective service	52	18.9	12.3	1.9
Financial managers	481	44.7	4.0	3.2
Personnel and labor relations managers	126	57.6	5.7	3.1
Purchasing managers	112	33.9	2.9	2.2
Managers, marketing, advertising, and public relations	514	30.6	2.1	1.9
Administrators, education and related fields	541	55.2	8.5	4.2
Managers, medicine and health	199	65.0	6.2	4.1
Managers, properties and real estate	448	46.0	6.3	5.8
Management-related occupations	3,951	50.8	7.4	4.4
Accountants and auditors	1,446	51.5	7.6	3.7
Underwriters	93	64.0	7.2	3.2
Other financial officers	673	48.2	5.9	5.5
Management analysts	218	31.4	5.6	1.8
Personnel, training, and labor relations specialists	426	60.5	11.7	5.6
Buyers, wholesale and retail trade, except farm products	204	55.7	3.5	5.3
Construction inspectors	67	4.9	8.3	7.2
Inspectors and compliance officers, except construction	221	23.0	10.1	5.5
Professional specialty	16,058	51.6	6.7	3.4
Architects	127	17.1	2.1	4.4
Engineers	1,846	8.2	3.6	2.4
Aerospace engineers	103	8.7	1.9	3.1
Chemical engineers	81	9.3	3.2	2.3
Civil engineers	223	5.6	4.0	2.5
Electrical and electronic engineers	562	8.6	4.9	2.8
Industrial engineers	201	13.6	4.3	2.5
Mechanical engineers	311	4.9	3.4	1.5
Mathematical and computer scientists	923	36.8	6.3	2.9
Computer systems analysts and scientists	675	33.7	5.8	2.6
Operations and systems researchers and analysts	201	43.0	8.2	3.9
Natural scientists	438	26.1	3.3	3.6
Chemists, except biochemists	127	29.9	5.2	4.6
Geologists and geodesists	57	10.5	.7	.6
Biological and life scientists	98	37.9	5.2	5.2
Health diagnosing occupations	849	18.1	2.6	3.6
Physicians	575	20.1	3.2	4.4
Dentists	150	10.1	1.5	2.7
Health assessment and treating occupations	2,376	86.2	7.2	2.9
Registered nurses	1,712	94.8	7.1	2.4
Pharmacists	187	36.8	3.4	3.2
Dietitians	71	93.7	19.1	6.8
Therapists	340	77.9	7.2	4.8
Inhalation therapists	68	63.0	10.3	7.6
Physical therapists	101	77.5	5.8	5.4
Speech therapists	72	88.2	1.3	3.4
Physicians' assistants	67	37.1	8.0	3.7
Teachers, college and university	773	40.8	4.8	2.9
Teachers, except college and university	4,029	74.3	8.6	3.7
Prekindergarten and kindergarten	445	98.7	12.4	5.8
Elementary school	1,524	85.9	8.9	3.3
Secondary school	1,222	54.7	7.3	3.4
Special education	282	83.7	9.5	3.4
Teachers, n.e.c.	556	61.0	7.1	4.1
Counselors, educational and vocational	222	64.4	15.5	3.7
Librarians, archivists, and curators	212	81.1	5.8	2.6
Librarians	194	83.0	6.1	2.4
Social scientists and urban planners	386	53.5	6.7	3.5
Economists	116	45.7	5.1	3.2
Psychologists	230	60.3	7.8	3.8
Social, recreation, and religious workers	1,124	51.0	15.1	5.9
Social workers	603	68.0	21.9	7.2
Recreation workers	106	76.3	16.3	7.2
Clergy	331	9.3	5.4	4.3
Religious workers, n.e.c.	84	60.2	3.7	1.6
Lawyers and judges	772	18.9	2.8	1.6

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1991			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Lawyers	744	19.0	2.6	1.6
Writers, artists, entertainers, and athletes	1,957	46.7	5.0	4.1
Authors	91	53.2	1.4	1.0
Technical writers	62	50.0	5.3	1.8
Designers	527	53.4	2.9	4.3
Musicians and composers	156	31.1	7.6	6.2
Actors and directors	87	33.2	10.5	4.8
Painters, sculptors, craft-artists, and artist printmakers	208	55.3	2.7	3.2
Photographers	136	23.0	7.7	4.4
Editors and reporters	279	51.1	4.5	2.8
Public relations specialists	173	56.2	8.3	3.1
Announcers	60	21.3	6.2	5.2
Athletes	77	24.7	7.5	4.2
Technical, sales, and administrative support	36,086	64.7	9.3	6.0
Technicians and related support	3,794	49.4	8.9	4.6
Health technologists and technicians	1,379	82.9	12.9	5.5
Clinical laboratory technologists and technicians	317	75.7	13.4	6.8
Dental hygienists	84	99.8	1.1	3.3
Health record technologists & technicians	67	93.9	13.4	5.2
Radiologic technicians	140	74.5	7.9	8.8
Licensed practical nurses	445	95.0	16.5	4.4
Engineering and related technologists and technicians	947	18.4	7.2	4.4
Electrical and electronic technicians	350	13.6	9.3	4.7
Drafting occupations	264	17.4	5.4	4.2
Surveying and mapping technicians	67	10.1	2.9	3.9
Science technicians	241	29.8	6.6	5.6
Biological technicians	64	38.2	5.9	5.6
Chemical technicians	88	26.0	7.9	6.0
Technicians, except health, engineering, and science	1,227	39.4	6.2	3.6
Airplane pilots and navigators	101	3.4	1.5	2.9
Computer programmers	546	34.0	5.7	2.6
Legal assistants	219	83.0	6.7	4.9
Sales occupations	13,958	48.8	6.6	5.5
Supervisors and proprietors	3,739	34.3	4.3	4.9
Sales representatives, finance and business services	2,344	42.1	5.0	3.7
Insurance sales	588	31.1	5.3	3.1
Real estate sales	712	51.5	3.8	3.4
Securities and financial services sales	312	28.9	3.8	4.1
Advertising and related sales	140	53.1	4.2	4.1
Sales occupations, other business services	592	46.2	6.8	4.5
Sales representatives, commodities, except retail	1,601	22.4	2.6	3.5
Sales workers, retail and personal services	6,200	66.7	9.7	7.2
Sales workers, motor vehicles and boats	273	6.1	6.6	4.3
Sales workers, apparel	476	79.9	10.1	7.2
Sales workers, shoes	102	63.4	10.4	9.5
Sales workers, furniture and home furnishings	157	45.1	5.9	3.5
Sales workers, radio, television, hi-fi, and appliances	180	30.0	7.4	7.3
Sales workers, hardware and building supplies	225	18.8	3.4	4.2
Sales workers, parts	150	10.8	4.9	8.4
Sales workers, other commodities	1,453	71.1	6.8	6.4
Sales counter clerks	192	69.8	9.9	5.4
Cashiers	2,500	80.9	12.9	8.4
Street and door-to-door sales workers	368	69.3	9.4	7.3
News vendors	123	36.8	11.0	6.1
Sales-related occupations	74	66.9	4.0	1.2
Administrative support, including clerical	18,334	80.0	11.4	6.6
Supervisors	777	58.4	12.3	7.2
General office	448	67.1	13.2	7.4
Financial records processing	107	70.5	8.7	6.3
Supervisors, distribution, scheduling, and adjusting clerks	182	32.3	13.7	8.5
Computer equipment operators	746	66.3	13.9	6.5
Computer operators	741	66.3	13.9	6.5
Secretaries, stenographers, and typists	4,427	98.5	9.1	5.0
Secretaries	3,791	99.0	7.9	4.8
Typists	591	95.1	16.8	6.2
Information clerks	1,515	89.5	9.0	7.4
Interviewers	166	84.4	11.4	7.4
Hotel clerks	100	72.3	12.8	6.9

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1991			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Transportation ticket and reservation agents	117	59.9	9.3	9.6
Receptionists	875	97.1	8.1	7.1
Records processing occupations, except financial	891	80.5	14.9	7.9
Order clerks	230	78.8	17.1	7.7
Personnel clerks, except payroll and timekeeping	69	86.4	18.1	5.7
Library clerks	151	77.0	8.8	5.6
File clerks	297	80.9	16.3	9.9
Records clerks	125	84.0	13.1	8.2
Financial records processing	2,389	91.0	6.2	5.6
Bookkeepers, accounting, and auditing clerks	1,912	91.5	5.0	5.2
Payroll and timekeeping clerks	170	90.6	9.0	6.3
Billing clerks	170	90.7	11.8	7.9
Cost and rate clerks	81	80.7	12.3	5.3
Duplicating, mail and other office machine operators	71	61.7	14.2	10.7
Communications equipment operators	225	87.2	19.1	6.8
Telephone operators	213	89.2	19.5	6.4
Mail and message distributing occupations	923	37.8	21.1	5.7
Postal clerks, except mail carriers	278	48.3	27.7	6.3
Mail carriers, postal service	332	27.8	17.1	3.0
Mail clerks, except postal service	174	48.9	20.6	8.8
Messengers	140	26.9	18.3	7.0
Material recording, scheduling, and distributing clerks	1,784	42.6	12.7	8.6
Dispatchers	217	51.3	11.0	6.6
Production coordinators	186	51.0	7.8	4.0
Traffic, shipping, and receiving clerks	550	29.6	13.8	10.9
Stock and inventory clerks	565	43.9	13.4	8.6
Weighers, measurers, and checkers	64	49.7	15.9	11.0
Expediters	131	64.7	9.6	7.4
Adjusters and investigators	1,178	76.0	13.1	6.3
Insurance adjusters, examiners, and investigators	352	77.1	12.2	5.7
Investigators and adjusters, except insurance	568	76.1	12.5	6.2
Eligibility clerks, social welfare	91	90.0	17.3	6.5
Bill and account collectors	167	66.0	14.5	7.7
Miscellaneous administrative support	3,408	84.1	12.9	7.9
General office clerks	765	80.9	12.7	8.2
Bank tellers	481	90.3	10.7	6.5
Data entry keyers	517	86.0	16.0	9.0
Statistical clerks	77	75.1	10.2	6.0
Teachers' aides	486	93.1	13.0	12.4
Service occupations	15,986	59.8	17.2	11.2
Private household	787	96.0	21.0	21.0
Child care workers	340	96.7	10.5	14.1
Cleaners and servants	403	95.8	29.3	26.3
Protective service	2,071	15.2	16.8	6.2
Supervisors, protective service	182	9.0	11.1	5.1
Supervisors, police and detectives	95	9.4	11.1	6.5
Firefighting and fire prevention	220	2.3	8.6	4.4
Firefighting occupations	200	1.4	8.9	4.7
Police and detectives	870	14.0	15.5	5.8
Police and detectives, public service	485	10.3	11.3	6.5
Sheriffs, bailiffs, and other law enforcement officers	116	18.3	15.2	7.9
Correctional institution officers	269	18.7	23.3	3.6
Guards	799	21.6	21.7	7.5
Guards and police, except public service	685	15.9	23.5	7.7
Service occupations, except private household and protective service	13,128	64.6	17.1	11.4
Food preparation and service occupations	5,370	59.3	12.4	12.2
Supervisors	321	71.1	12.2	6.8
Bartenders	290	54.0	2.0	4.7
Waiters and waitresses	1,355	81.6	4.2	7.1
Cooks, except short order	1,779	46.9	18.3	14.4
Short-order cooks	82	28.9	23.3	11.7
Food counter, fountain, and related occupations	329	71.0	10.9	7.9
Kitchen workers, food preparation	131	70.6	16.6	13.8
Waiters' and waitresses' assistants	380	38.5	15.3	20.6
Miscellaneous food preparation	703	51.9	15.1	19.5
Health service occupations	2,178	88.6	26.4	6.9
Dental assistants	177	98.2	5.6	6.4
Health aides, except nursing	494	83.1	19.6	7.3

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1991			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Nursing aides, orderlies, and attendants	1,506	89.2	31.2	6.9
Cleaning and building service occupations	3,068	43.1	22.8	16.0
Supervisors	173	39.0	28.8	9.4
Maids and housemen	718	82.9	27.2	19.7
Janitors and cleaners	2,126	30.9	21.0	15.4
Personal service occupations	2,512	81.6	11.9	7.7
Barbers	104	18.3	16.7	8.2
Hairdressers and cosmetologists	745	90.2	8.6	7.5
Attendants, amusement and recreation facilities	145	38.8	9.5	7.4
Public transportation attendants	85	83.0	11.1	5.9
Welfare service aides	121	94.7	25.0	16.0
Child care workers	972	96.0	11.7	7.1
Precision production, craft, and repair	13,162	8.6	7.8	8.6
Mechanics and repairers	4,427	3.7	7.7	7.0
Supervisors	251	8.2	4.9	6.0
Mechanics and repairers, except supervisors	4,176	3.4	7.8	7.0
Vehicle and mobile equipment mechanics and repairers	1,778	1.1	6.7	8.4
Automobile mechanics	864	.8	7.3	9.5
Bus, truck, and stationery engine mechanics	302	.3	6.7	7.1
Aircraft engine mechanics	133	4.0	7.2	9.3
Small engine repairers	70	1.1	1.3	6.5
Automobile body and related repairers	192	.6	6.5	8.9
Heavy equipment mechanics	164	.7	6.0	5.2
Industrial machinery repairers	518	2.7	7.8	7.0
Electrical and electronic equipment repairers	711	9.6	9.9	4.9
Electronic repairers, communications, and industrial equipment	172	6.4	9.3	4.8
Data processing equipment repairers	152	14.8	11.8	3.8
Telephone line installers and repairers	64	6.5	7.9	7.6
Telephone installers and repairers	196	13.0	10.7	3.3
Heating, air conditioning, and refrigeration mechanics	253	.5	6.8	6.2
Miscellaneous mechanics and repairers	891	4.3	8.4	6.4
Office machine repairers	64	4.8	5.4	8.0
Millwrights	78	4.5	5.9	1.8
Construction trades	4,808	1.8	7.3	9.1
Supervisors	610	1.1	5.1	5.4
Construction trades, except supervisors	4,198	1.9	7.7	9.6
Brickmasons and stonemasons	166	.2	20.4	11.6
Tile setters, hard and soft	60	1.9	7.0	11.0
Carpet installers	98	1.5	5.0	17.6
Carpenters	1,277	1.3	4.7	8.2
Drywall installers	126	1.9	7.3	11.7
Electricians	677	1.4	4.4	6.6
Electrical power installers and repairers	114	1.0	10.6	3.4
Painters, construction and maintenance	531	5.5	9.0	14.7
Plumbers, pipefitters, and steamfitters	440	1.0	9.5	7.0
Concrete and terrazzo finishers	68	.4	31.8	13.4
Roofers	194	.4	10.0	15.2
Structural metal workers	54	.9	4.5	4.2
Extractive occupations	145	3.1	5.3	7.2
Precision production occupations	3,782	23.2	8.5	10.0
Supervisors	1,227	17.1	8.4	7.7
Precision metalworking	905	6.0	5.1	8.3
Tool and die makers	143	.8	3.0	3.7
Machinists	496	4.1	6.1	8.2
Sheet-metal workers	121	5.1	3.3	9.6
Precision woodworking occupations	94	14.3	6.0	9.1
Cabinet makers and bench carpenters	54	4.5	2.1	9.0
Precision textile, apparel, and furnishings machine workers	231	59.5	8.8	18.4
Dressmakers	109	93.3	9.7	13.3
Upholsterers	59	24.4	6.9	18.1
Precision workers, assorted materials	512	56.0	8.7	11.6
Optical goods workers	63	55.4	4.5	7.7
Dental laboratory and medical appliance technicians	53	31.4	8.5	9.3
Electrical and electronic equipment assemblers	300	70.5	9.8	13.0
Precision food production occupations	436	31.6	15.0	18.5
Butchers and meat cutters	274	20.6	17.5	21.3
Bakers	121	44.5	9.6	15.8
Precision inspectors, testers, and related workers	124	21.1	10.4	5.2
Inspectors, testers, and graders	115	19.9	10.9	5.3

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1991			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Plant and system operators	253	4.7	10.1	4.1
Water and sewage treatment plant operators	59	4.8	8.7	3.2
Stationary engineers	105	1.7	10.5	2.5
Operators, fabricators, and laborers	17,172	25.2	15.0	12.0
Machine operators, assemblers, and inspectors	7,696	40.1	14.8	13.4
Machine operators and tenders, except precision	5,059	41.0	16.0	14.4
Metalworking and plastic working machine operators	430	18.1	9.8	8.5
Lathe and turning machine operators	58	8.7	5.6	8.7
Punching and stamping press machine operators	106	35.4	11.0	13.2
Grinding, abrading, buffing, and polishing machine operators	130	15.3	10.6	8.7
Metal and plastic processing machine operators	156	21.9	11.2	13.4
Molding and casting machine operators	103	29.4	7.8	12.6
Woodworking machine operators	139	11.9	17.2	7.7
Sawing machine operators	87	11.0	14.6	9.2
Printing machine operators	461	26.4	7.2	9.7
Printing machine operators	320	15.5	8.2	10.4
Typesetters and compositors	70	69.4	6.3	7.6
Textile, apparel, and furnishings machine operators	1,234	76.9	23.7	18.6
Winding and twisting machine operators	76	70.4	43.2	4.5
Textile sewing machine operators	676	89.2	20.0	22.7
Pressing machine operators	128	64.5	25.8	23.5
Laundering and dry cleaning machine operators	198	61.8	26.1	16.3
Machine operators, assorted materials	2,613	33.1	15.2	14.6
Packaging and filling machine operators	443	62.4	19.7	23.1
Mixing and blending machine operators	96	10.0	17.1	11.3
Separating, filtering, and clarifying machine operators	60	9.7	16.5	4.1
Painting and paint spraying machine operators	189	12.1	11.8	17.5
Furnace, kiln, and oven operators, except food	96	6.4	13.0	6.6
Slicing and cutting machine operators	188	29.2	12.8	17.8
Photographic process machine operators	87	50.1	7.9	12.7
Fabricators, assemblers, and hand working occupations	1,868	32.8	11.9	11.7
Welders and cutters	549	4.1	6.8	10.6
Assemblers	1,119	44.2	14.9	12.2
Production inspectors, testers, samplers, and weighers	768	52.0	13.9	10.9
Production inspectors, checkers, and examiners	602	53.2	14.1	8.2
Production testers	58	30.8	9.8	3.6
Graders and sorters, except agricultural	98	56.2	16.0	29.6
Transportation and material moving occupations	4,878	9.0	15.6	8.5
Motor vehicle operators	3,680	10.6	16.3	8.5
Supervisors	80	19.1	11.6	7.4
Truck drivers, heavy	1,975	2.5	14.9	7.9
Truck drivers, light	691	8.8	13.4	9.5
Drivers-sales workers	215	9.1	8.4	5.1
Bus drivers	468	46.7	24.2	6.9
Taxi-cab drivers and chauffeurs	194	11.4	30.5	12.8
Transportation occupations, except motor vehicles	176	2.3	11.0	6.9
Rail transportation occupations	115	2.5	13.5	7.5
Material moving equipment operators	1,022	4.2	14.1	8.7
Operating engineers	211	.7	7.0	7.6
Crane and tower operators	81	1.9	19.3	5.5
Excavating and loading machine operators	96	.9	4.9	5.7
Grader, dozer, and scraper operators	86	.8	6.2	6.2
Industrial truck and tractor equipment operators	436	7.0	20.5	11.0
Handlers, equipment cleaners, helpers, and laborers	4,597	17.5	14.5	13.5
Helpers, construction and extractive occupations	122	2.6	13.8	20.6
Helpers, construction trades	113	2.6	14.8	21.9
Construction laborers	700	3.2	11.7	17.2
Production helpers	68	18.3	13.4	20.7
Freight, stock, and material handlers	1,688	18.0	14.9	10.1
Stock handlers and baggers	903	23.1	10.6	10.8
Machine feeders and offbearers	83	36.4	25.2	7.4
Garage and service station related occupations	207	5.6	11.4	10.0
Vehicle washers and equipment cleaners	221	12.7	25.4	16.3

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1991			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Hand packers and packagers	289	63.5	12.9	16.9
Laborers, except construction	1,257	19.1	14.6	13.6
Farming, forestry, and fishing	3,459	16.1	6.4	14.6
Farm operators and managers	1,250	16.5	1.1	1.5
Farmers	1,118	16.3	1.2	1.1
Farm managers	133	17.9	.8	4.5
Other agricultural and related occupations	2,038	16.8	9.5	23.0
Farm occupations, except managerial	964	22.1	8.3	26.6
Farm workers	883	21.4	8.6	26.8
Related agricultural occupations	1,074	12.1	10.7	19.8
Supervisors	65	6.7	1.9	12.3
Groundskeepers and gardeners, except farm	890	5.5	12.2	21.8
Animal caretakers, except farm	104	65.4	3.9	5.2
Forestry and logging occupations	112	5.6	11.7	10.4
Timber cutting and logging	80	1.9	13.1	5.4
Fishers, hunters, and trappers	59	3.6	2.8	7.3

NOTE: N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of occupations which cannot be more specifically identified. Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1992			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	117,598	45.7	10.1	7.6
Managerial and professional specialty	31,153	47.3	6.5	3.9
Executive, administrative, and managerial occupations	14,767	41.5	5.8	4.2
Officials and administrators, public administration	619	43.8	11.5	3.7
Financial managers	517	46.3	3.0	3.9
Personnel and labor relations managers	104	58.9	5.9	3.4
Purchasing managers	113	33.2	5.8	2.2
Managers, marketing, advertising, and public relations	516	33.6	2.9	3.4
Administrators, education and related fields	605	56.8	9.8	3.7
Managers, medicine and health	364	65.8	8.8	2.9
Postmasters and mail superintendents	51	43.0	5.3	4.8
Managers, food serving and lodging establishments	1,142	41.2	8.2	7.2
Managers, properties and real estate	436	45.5	7.2	5.6
Funeral directors	53	15.1	13.2	-
Management-related occupations	3,961	52.1	6.9	4.6
Accountants and auditors	1,365	51.2	5.8	4.4
Underwriters	89	68.8	7.5	6.4
Other financial officers	667	46.1	6.7	5.3
Management analysts	218	34.9	4.6	1.5
Personnel, training, and labor relations specialists	416	62.8	11.6	4.4
Buyers, wholesale and retail trade, except farm products	205	51.4	4.1	4.8
Construction inspectors	66	3.8	6.4	2.1
Inspectors and compliance officers, except construction	233	24.1	10.1	7.7
Professional specialty	16,386	52.6	7.0	3.5
Engineers, architects, and surveyors	1,906	8.9	3.7	3.0
Architects	138	15.3	1.3	4.3
Engineers	1,751	8.5	3.9	2.9
Aerospace engineers	89	6.4	3.3	1.3
Chemical engineers	70	6.3	.7	2.8
Civil engineers	217	7.9	3.4	3.9
Electrical and electronic engineers	527	8.4	5.2	2.4
Industrial engineers	204	14.0	4.7	3.5
Mechanical engineers	303	5.3	3.7	2.7
Mathematical and computer scientists	935	33.5	6.8	3.1
Computer systems analysts and scientists	693	29.6	5.9	2.9
Operations and systems researchers and analysts	192	45.2	9.3	4.2
Natural scientists	459	27.2	3.0	3.0
Chemists, except biochemists	120	30.1	2.8	3.4
Geologists and geodesists	52	11.8	.3	1.0
Biological and life scientists	95	33.8	2.8	4.6
Medical scientists	66	40.3	4.1	3.8
Health diagnosing occupations	914	18.3	2.6	3.5
Physicians	614	20.4	3.3	4.3
Dentists	162	8.5	1.1	1.6
Health assessment and treating occupations	2,517	86.8	8.5	3.4
Registered nurses	1,805	94.3	8.5	2.9
Pharmacists	198	37.8	5.6	2.2
Dietitians	90	89.8	21.3	8.5
Therapists	381	79.6	6.1	4.8
Respiratory therapists	77	67.9	8.3	7.3
Physical therapists	104	76.5	4.4	7.6
Speech therapists	79	92.1	1.7	.3
Teachers, college and university	737	40.9	4.7	2.7
Teachers, except college and university	4,216	74.8	9.3	3.4
Prekindergarten and kindergarten	481	98.6	12.7	5.9
Elementary school	1,643	85.4	10.4	3.3
Secondary school	1,172	55.5	7.6	2.7
Special education	269	84.7	10.0	2.1
Counselors, educational and vocational	234	65.8	11.4	5.6
Librarians, archivists, and curators	207	83.6	5.6	3.0
Librarians	182	87.6	5.8	2.7
Social scientists and urban planners	387	54.1	6.7	3.1
Economists	122	43.3	7.9	3.0
Psychologists	223	62.5	6.2	3.3
Social, recreation, and religious workers	1,069	50.5	14.8	5.9
Social workers	590	68.9	20.2	7.4
Recreation workers	93	72.3	15.7	3.5
Clergy	317	8.4	6.4	4.0

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1992			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Lawyers and judges	788	21.4	3.1	2.0
Lawyers	753	21.4	2.7	1.9
Writers, artists, entertainers, and athletes	2,019	47.2	4.9	4.5
Authors	125	54.5	2.7	.9
Technical writers	54	53.9	3.8	4.2
Designers	542	54.8	3.0	4.3
Musicians and composers	188	29.4	11.2	6.6
Actors and directors	96	40.3	6.6	3.8
Painters, sculptors, craft artists, and artist printmakers	222	50.3	2.8	3.9
Photographers	129	26.4	6.4	4.6
Editors and reporters	264	49.7	4.4	2.8
Public relations specialists	161	58.5	5.5	2.4
Announcers	53	16.9	6.8	7.1
Athletes	71	25.8	9.7	5.3
Technical, sales, and administrative support	36,808	63.9	9.1	6.1
Technicians and related support	4,253	49.0	9.7	4.5
Health technologists and technicians	1,517	81.8	12.3	5.2
Clinical laboratory technologists and technicians	301	77.6	12.6	6.2
Dental hygienists	74	99.0	.6	.9
Health record technologists and technicians	57	88.9	12.9	8.2
Radiologic technicians	146	74.0	6.7	5.1
Licensed practical nurses	453	94.8	17.2	3.1
Engineering and related technologists and technicians	920	17.5	7.0	4.8
Electrical and electronic technicians	330	12.2	9.2	5.3
Drafting occupations	255	19.0	4.4	3.9
Surveying and mapping technicians	72	7.8	.3	6.6
Science technicians	240	36.1	8.3	4.3
Biological technicians	79	51.7	5.2	5.9
Chemical technicians	77	26.7	10.0	3.6
Technicians, except health, engineering, and science	1,576	37.9	8.9	3.8
Airplane pilots and navigators	97	2.3	2.2	2.5
Computer programmers	550	33.0	6.8	2.5
Legal assistants	241	76.7	10.0	5.2
Sales occupations	13,919	47.9	6.2	5.6
Supervisors and proprietors	3,886	34.8	4.0	4.8
Sales representatives, finance and business services	2,247	40.0	4.7	3.6
Insurance sales	573	31.7	6.1	3.9
Real estate sales	719	50.4	2.6	3.7
Securities and financial services sales	322	29.6	3.7	2.5
Advertising and related sales	164	49.3	6.0	3.0
Sales occupations, other business services	467	37.9	6.5	4.2
Sales representatives, commodities, except retail	1,570	21.8	2.4	3.3
Sales representatives, mining, manufacturing, and wholesale	1,537	22.1	2.4	3.4
Sales workers, retail and personal services	6,129	65.5	9.1	7.5
Sales workers, motor vehicles and boats	270	7.1	5.4	5.8
Sales workers, apparel	477	82.3	10.4	8.2
Sales workers, shoes	110	60.0	10.0	11.5
Sales workers, furniture and home furnishings	159	42.1	7.7	5.2
Sales workers, radio, television, hi-fi, and appliances	182	25.3	6.0	5.9
Sales workers, hardware and building supplies	235	20.8	1.3	5.1
Sales workers, parts	153	7.5	3.8	9.8
Sales workers, other commodities	1,391	69.9	6.2	6.3
Sales counter clerks	197	65.4	7.3	8.8
Cashiers	2,519	79.3	12.8	8.5
Street and door-to-door sales workers	316	71.8	6.7	5.9
News vendors	121	31.7	7.3	6.6
Sales-related occupations	93	65.7	6.0	4.0
Demonstrators, promoters, and models	55	78.9	8.2	4.5
Administrative support occupations, including clerical	18,636	79.3	11.1	6.7
Supervisors, administrative support	759	56.7	11.7	7.2
Supervisors, general office	466	63.9	12.1	7.0
Supervisors, financial records processing	87	74.0	5.1	4.1
Supervisors, distribution, scheduling, and adjusting clerks	175	30.5	13.4	10.0
Computer equipment operators	664	63.6	13.0	6.7
Computer operators	661	63.6	13.1	6.6
Secretaries, stenographers, and typists	4,315	98.4	9.3	5.7
Secretaries	3,700	99.0	8.2	5.4
Stenographers	72	92.1	3.1	4.9

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1992			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Typists	547	95.1	17.2	7.7
Information clerks	1,653	88.7	8.3	7.9
Interviewers	150	77.9	12.9	9.2
Hotel clerks	107	74.3	11.8	6.4
Transportation ticket and reservation agents	250	74.4	5.9	7.1
Receptionists	892	97.3	7.5	8.0
Records processing, except financial	916	79.6	15.4	7.4
Order clerks	219	76.0	16.8	7.0
Personnel clerks, except payroll and timekeeping	68	89.9	12.2	6.3
Library clerks	152	77.7	10.1	4.6
File clerks	292	81.3	17.9	8.6
Records clerks	172	79.0	15.9	9.4
Financial records processing	2,335	90.6	5.3	5.4
Bookkeepers, accounting, and auditing clerks	1,841	90.7	4.3	5.2
Payroll and timekeeping clerks	171	90.8	7.1	5.1
Billing clerks	180	92.4	10.3	5.4
Cost and rate clerks	67	81.1	7.4	9.6
Billing, posting, and calculating machine operators	72	92.4	12.7	8.4
Duplicating, mail and other office machine operators	72	53.6	19.5	6.9
Communications equipment operators	226	88.3	19.5	6.2
Telephone operators	215	89.9	18.9	6.3
Mail and message distributing	902	37.3	19.0	7.6
Postal clerks, except mail carriers	252	46.1	26.6	8.4
Mail carriers, postal service	325	27.8	14.5	5.0
Mail clerks, except postal service	180	49.5	21.3	9.6
Messengers	144	28.2	13.1	9.8
Material recording, scheduling, and distributing clerks	1,846	43.5	12.7	8.2
Dispatchers	213	55.4	10.2	5.6
Production coordinators	194	49.2	9.2	3.3
Traffic, shipping, and receiving clerks	550	31.6	14.6	10.6
Stock and inventory clerks	544	40.3	12.8	8.7
Weighers, measurers, and checkers and samplers	65	47.2	14.7	14.0
Expediters	209	66.7	11.8	5.6
Adjusters and investigators	1,300	75.1	11.9	6.1
Insurance adjusters, examiners, and investigators	373	76.1	11.6	4.7
Investigators and adjusters, except insurance	686	75.6	12.1	6.7
Eligibility clerks, social welfare	78	86.9	13.9	8.6
Bill and account collectors	163	64.6	11.2	5.8
Miscellaneous administrative support	3,642	82.9	12.8	7.3
General office clerks	717	83.5	12.6	8.1
Bank tellers	468	89.8	7.7	6.1
Data-entry keyers	571	84.9	17.1	7.8
Statistical clerks	58	78.6	15.8	6.2
Teachers' aides	485	91.9	15.2	11.4
Service occupations	16,096	59.7	17.5	11.3
Private household	876	95.9	18.6	19.6
Child care workers	353	97.1	10.2	12.6
Cleaners and servants	484	94.8	23.6	24.6
Protective service	2,096	16.7	18.0	7.2
Supervisors	172	9.5	13.2	7.7
Police and detectives	81	10.8	8.1	10.0
Guards	54	13.9	24.6	7.5
Firefighting and fire prevention occupations	205	3.3	6.5	3.7
Firefighting occupations	190	2.4	6.5	3.5
Police and detectives	862	15.8	16.6	6.7
Police and detectives, public service	459	10.6	10.8	7.3
Sheriffs, bailiffs, and other law enforcement officers	108	20.8	16.3	7.4
Correctional institution officers	295	21.9	25.7	5.5
Guards	860	22.3	23.1	8.5
Guards and police, except public services	730	15.4	25.1	9.1
Service occupations, except private household and protective service	13,124	64.1	17.3	11.4
Food preparation and service occupations	5,459	59.0	13.0	12.2
Supervisors, food preparation and service	338	67.2	13.2	6.5
Bartenders	291	55.0	2.9	4.9
Waiters and waitresses	1,369	79.6	4.7	7.6
Cooks	1,877	46.1	18.5	14.7
Food counter, fountain and related occupations	316	72.6	12.3	8.5
Kitchen workers, food preparation	246	76.0	15.9	11.4

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1992			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Waiters' and waitresses' assistants	364	37.5	14.3	19.0
Miscellaneous food preparation	646	49.1	17.2	18.9
Health service occupations	2,105	88.8	27.7	7.1
Dental assistants	169	98.6	3.9	10.6
Health aides, except nursing	363	81.3	22.7	6.1
Nursing aides, orderlies, and attendants	1,574	89.4	31.4	7.0
Cleaning and building service occupations	2,988	41.1	22.6	16.4
Supervisors	173	36.6	25.7	13.2
Maids and housemen	638	82.3	27.3	19.5
Janitors and cleaners	2,118	30.0	21.3	15.9
Personal service occupations	2,573	81.7	11.9	7.5
Supervisors	75	60.5	9.9	6.1
Barbers	86	20.9	15.3	7.6
Hairdressers and cosmetologists	758	90.8	9.6	6.7
Attendants, amusement and recreation facilities	153	47.9	9.3	6.5
Public transportation attendants	91	82.5	10.8	8.6
Welfare service aides	92	87.7	18.3	16.5
Family child care providers	320	98.7	7.5	9.7
Early childhood teachers' assistants	385	95.9	14.4	6.3
Precision production, craft, and repair	13,128	8.6	7.6	9.1
Mechanics and repairers	4,441	3.3	7.6	7.8
Supervisors	231	8.0	6.4	3.0
Mechanics and repairers, except supervisors	4,209	3.1	7.7	8.1
Vehicle and mobile equipment mechanics and repairers	1,845	1.1	6.8	10.1
Automobile mechanics	894	.8	7.4	10.7
Bus, truck, and stationary engine mechanics	333	.5	7.5	7.6
Aircraft engine mechanics	143	4.6	8.0	15.3
Small engine repairers	55	2.1	3.0	7.1
Automobile body and related repairers	202	.5	5.1	12.9
Heavy equipment mechanics	158	.3	5.7	5.2
Industrial machinery repairers	554	2.3	8.4	7.6
Electrical and electronic equipment repairers	654	7.4	8.7	6.1
Electronic repairers, communications and industrial equipment	155	4.9	5.4	6.4
Data processing equipment repairers	146	10.4	7.8	6.8
Household appliance and power tool repairers	51	3.9	10.3	5.5
Telephone line installers and repairers	58	3.4	12.9	6.4
Telephone installers and repairers	172	10.4	9.6	4.9
Heating, air conditioning, and refrigeration mechanics	241	.6	6.9	4.7
Miscellaneous mechanics and repairers	891	5.1	8.4	6.4
Office machine repairers	59	2.6	8.1	3.4
Construction trades	4,790	1.9	6.9	9.1
Supervisors	654	1.2	4.1	5.0
Construction trades, except supervisors	4,137	2.0	7.3	9.8
Brickmasons and stonemasons	180	.9	18.0	11.9
Tile setters, hard and soft	59	1.2	6.4	17.3
Carpet installers	101	1.5	9.9	13.4
Carpenters	1,236	1.0	5.4	8.1
Drywall installers	116	1.6	6.9	14.9
Electricians	663	1.3	5.1	5.6
Electrical power installers and repairers	103	.3	10.4	4.2
Painters, construction and maintenance	537	5.0	9.1	14.4
Plumbers, pipefitters, and steamfitters	426	.9	7.0	6.8
Concrete and terrazzo finishers	59	1.4	25.4	19.7
Insulation workers	58	3.6	8.2	12.4
Roofers	188	.6	7.5	15.5
Extractive occupations	130	.6	3.4	7.3
Precision production occupations	3,765	23.7	8.6	10.8
Supervisors	1,221	17.0	7.5	8.9
Precision metalworking	822	6.6	6.3	7.7
Tool and die makers	130	1.8	2.3	2.1
Machinists	454	4.2	8.0	9.4
Sheet-metal workers	101	5.2	4.5	7.1
Precision woodworking occupations	109	11.0	4.8	9.4
Cabinet makers and bench carpenters	73	6.3	3.0	8.0
Precision textile, apparel, and furnishings machine workers	244	56.2	9.6	18.4
Dressmakers	108	92.8	7.1	12.9
Upholsterers	70	20.8	9.0	19.8
Precision workers, assorted materials	523	56.2	10.4	13.2

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1992			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Optical goods workers	64	49.8	5.7	9.7
Dental laboratory and medical appliance technicians	52	43.8	7.8	19.4
Electrical and electronic equipment assemblers	321	65.8	12.3	13.5
Precision food production occupations	452	32.1	12.8	19.7
Butchers and meat cutters	286	23.5	14.0	23.2
Bakers	120	39.8	10.8	14.9
Precision inspectors, testers, and related workers	130	23.9	9.3	8.3
Inspectors, testers, and graders	122	22.1	9.5	8.8
Plant and system operators	264	3.8	10.4	4.2
Water and sewage treatment plant operators	55	4.0	4.7	.9
Stationary engineers	119	2.5	11.8	3.8
Operators, fabricators, and laborers	16,957	25.0	15.1	11.8
Machine operators, assemblers, and inspectors	7,524	39.7	15.0	13.5
Machine operators and tenders, except precision	4,842	40.1	16.4	14.2
Metalworking and plastic working machine operators	400	18.0	9.4	9.7
Punching and stamping press machine operators	120	28.3	14.0	12.4
Grinding, abrading, buffing, and polishing machine operators	125	16.7	7.6	9.8
Metal and plastic processing machine operators	153	21.1	13.1	12.9
Molding and casting machine operators	105	27.8	10.3	13.4
Woodworking machine operators	134	14.1	12.5	8.1
Sawing machine operators	79	13.2	15.5	9.7
Printing machine operators	444	23.1	6.8	10.0
Printing press operators	314	13.6	6.3	12.3
Typesetters and compositors	56	67.3	4.7	3.7
Textile, apparel, and furnishings machine operators	1,200	76.4	23.7	18.0
Winding and twisting machine operators	70	70.6	41.8	.1
Textile sewing machine operators	676	87.4	20.2	22.4
Pressing machine operators	123	67.1	27.1	23.6
Laundering and dry cleaning machine operators	193	58.9	24.5	14.6
Machine operators, assorted materials	2,494	31.7	16.1	14.2
Packaging and filling machine operators	347	60.0	20.2	21.0
Mixing and blending machine operators	107	9.4	14.6	10.9
Separating, filtering, and clarifying machine operators	61	12.3	11.5	6.7
Painting and paint spraying machine operators	182	12.2	11.9	17.4
Furnace, kiln, and oven operators, except food	70	4.8	13.2	6.3
Slicing and cutting machine operators	193	30.8	11.9	18.7
Photographic process machine operators	88	52.5	7.8	8.2
Fabricators, assemblers, and hand working occupations	1,904	33.2	11.6	12.1
Welders and cutters	570	4.2	7.7	11.8
Assemblers	1,116	44.9	13.9	12.5
Production inspectors, testers, samplers, and weighers	773	53.6	14.6	12.3
Production inspectors, checkers, and examiners	583	54.9	14.1	9.7
Graders and sorters, except agricultural	133	58.0	19.2	26.8
Transportation and material moving occupations	4,878	8.8	14.9	8.4
Motor vehicle operators	3,706	10.2	15.7	8.6
Supervisors	87	15.4	8.2	8.4
Truck drivers	2,694	4.6	13.6	8.5
Drivers--sales workers	184	8.6	7.3	5.0
Bus drivers	479	41.7	24.7	7.0
Taxicab drivers and chauffeurs	214	10.2	29.5	14.0
Transportation occupations, except motor vehicles	162	3.6	10.2	4.7
Rail transportation	108	4.0	13.7	4.2
Water transportation	53	2.7	2.9	5.5
Material moving equipment operators	1,009	4.5	12.4	8.6
Operating engineers	192	.9	7.7	5.9
Crane and tower operators	78	3.1	13.3	3.5
Excavating and loading machine operators	116	.8	6.2	4.3
Grader, dozer, and scraper operators	89	.8	9.5	3.4
Industrial truck and tractor equipment operators	421	6.6	17.4	12.5
Handlers, equipment cleaners, helpers, and laborers	4,556	18.0	15.4	12.5
Helpers, construction and extractive occupations	119	3.8	8.0	16.7
Helpers, construction trades	110	4.0	8.7	17.5
Construction laborers	654	3.1	12.5	16.7
Production helpers	52	20.3	11.4	14.7
Freight, stock, and material handlers	1,737	18.6	16.6	9.8
Stock handlers and baggers	916	24.4	12.0	9.4
Machine feeders and offbearers	90	37.0	22.5	7.9
Garage and service station related occupations	196	5.2	11.1	9.6

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1992			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Vehicle washers and equipment cleaners	246	13.3	23.5	15.1
Hand packers and packagers	321	62.9	14.0	15.9
Laborers, except construction	1,177	18.2	15.8	12.4
Farming, forestry, and fishing	3,456	15.9	6.5	15.1
Farm operators and managers	1,232	15.4	.9	1.7
Farmers	1,102	15.7	.9	1.7
Farm managers	132	12.8	1.0	1.9
Other agricultural and related occupations	2,054	17.2	9.7	23.9
Farm occupations, except managerial	950	22.0	7.9	28.4
Farm workers	866	21.6	8.2	27.8
Related agricultural occupations	1,104	13.0	11.2	19.9
Supervisors	61	5.2	3.7	10.0
Groundskeepers and gardeners, except farm	907	5.9	12.6	20.7
Animal caretakers, except farm	94	65.0	4.9	4.8
Forestry and logging occupations	109	5.4	13.0	7.4
Timber cutting and logging occupations	78	1.6	17.1	2.3
Fishers, hunters, and trappers	60	3.9	.9	5.5
Fishers	51	4.4	.6	6.4

NOTE: Generally data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown. Data for 1992 are not fully comparable with data for prior years because of the introduction of the occupational classification system used in the 1990 census.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1993			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	119,306	45.8	10.2	7.8
Managerial and professional specialty	32,280	47.8	6.6	4.0
Executive, administrative, and managerial occupations	15,376	42.0	6.2	4.5
Officials and administrators, public administration	581	45.2	11.3	4.5
Financial managers	529	46.2	4.4	4.2
Personnel and labor relations managers	96	60.7	7.9	4.6
Purchasing managers	109	34.9	8.0	5.3
Managers, marketing, advertising, and public relations	496	31.2	3.1	3.5
Administrators, education and related fields	635	59.9	13.0	3.8
Managers, medicine and health	450	70.5	6.5	4.2
Managers, food serving and lodging establishments	1,198	43.4	8.1	7.8
Managers, properties and real estate	481	45.7	6.6	6.3
Funeral directors	51	18.6	7.1	3.3
Management-related occupations	4,155	52.7	7.5	4.6
Accountants and auditors	1,387	49.2	7.0	4.2
Underwriters	113	69.9	4.9	4.8
Other financial officers	697	48.7	5.7	4.8
Management analysts	250	33.7	3.9	2.0
Personnel, training, and labor relations specialists	401	64.1	12.5	6.0
Buyers, wholesale and retail trade, except farm products	226	48.7	4.8	4.7
Construction inspectors	64	5.0	10.8	4.6
Inspectors and compliance officers, except construction	213	25.8	10.9	6.8
Professional specialty	16,904	53.2	7.0	3.6
Engineers, architects, and surveyors	1,859	9.3	3.7	3.6
Architects	123	18.6	3.1	2.3
Engineers	1,716	8.6	3.7	3.6
Aerospace engineers	83	7.5	2.1	3.9
Chemical engineers	58	10.0	2.5	4.9
Civil engineers	221	9.4	4.7	3.8
Electrical and electronic engineers	533	7.6	4.5	3.4
Industrial engineers	201	16.4	3.4	4.4
Mechanical engineers	296	5.2	4.4	3.3
Mathematical and computer scientists	1,051	32.4	6.0	2.5
Computer systems analysts and scientists	769	29.9	5.8	2.4
Operations and systems researchers and analysts	236	39.7	6.3	3.0
Natural scientists	531	30.1	3.6	1.9
Chemists, except biochemists	133	28.8	4.3	3.0
Geologists and geodesists	54	14.0	1.0	2.1
Biological and life scientists	114	40.4	3.9	1.4
Medical scientists	82	45.5	5.8	2.5
Health diagnosing occupations	909	20.5	3.0	3.9
Physicians	605	21.8	3.7	4.6
Dentists	152	10.5	1.9	3.0
Health assessment and treating occupations	2,602	86.4	8.3	3.5
Registered nurses	1,859	94.4	8.4	3.2
Pharmacists	187	38.1	6.1	2.7
Dietitians	94	92.8	17.5	6.0
Therapists	416	74.9	6.9	4.1
Respiratory therapists	92	58.4	10.0	6.9
Physical therapists	115	72.5	3.0	5.0
Speech therapists	83	91.8	6.7	1.2
Teachers, college and university	772	42.5	4.8	3.1
Teachers, except college and university	4,397	75.1	8.6	3.6
Prekindergarten and kindergarten	501	97.7	11.7	5.0
Elementary school	1,668	85.9	9.3	3.9
Secondary school	1,237	57.5	6.9	3.1
Special education	286	84.0	10.1	2.3
Counselors, educational and vocational	224	67.6	14.3	6.9
Librarians, archivists, and curators	223	83.5	6.2	3.8
Librarians	195	88.3	7.0	3.5
Social scientists and urban planners	399	57.0	5.9	3.0
Economists	117	47.6	4.8	3.5
Psychologists	241	64.1	7.1	3.1
Social, recreation, and religious workers	1,096	50.5	15.6	5.0
Social workers	586	68.9	21.4	6.0
Recreation workers	89	75.1	14.8	4.7
Clergy	350	11.4	8.7	3.1
Lawyers and judges	815	22.8	2.8	2.1

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1993			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Lawyers	777	22.9	2.7	2.1
Writers, artists, entertainers, and athletes	2,026	46.6	5.3	4.7
Authors	139	57.2	2.4	1.9
Technical writers	63	52.8	2.7	2.3
Designers	541	52.6	3.7	4.4
Musicians and composers	174	32.8	8.8	5.8
Actors and directors	96	38.3	10.4	4.7
Painters, sculptors, craft artists, and artist printmakers	222	48.0	3.5	4.1
Photographers	135	26.2	6.5	7.1
Editors and reporters	266	48.5	5.0	3.4
Public relations specialists	155	59.6	7.0	3.5
Athletes	80	23.9	10.1	3.9
Technical, sales, and administrative support	36,814	63.8	9.3	6.3
Technicians and related support	4,014	50.5	9.6	5.0
Health technologists and technicians	1,522	81.0	12.4	5.8
Clinical laboratory technologists and technicians	315	76.1	12.1	6.1
Dental hygienists	76	99.3	.4	2.0
Health record technologists and technicians	63	88.8	20.4	5.7
Radiologic technicians	146	70.2	8.3	7.0
Licensed practical nurses	425	94.6	17.2	3.4
Engineering and related technologists and technicians	870	17.8	7.4	4.9
Electrical and electronic technicians	297	15.5	7.4	5.6
Drafting occupations	244	18.1	6.9	5.9
Surveying and mapping technicians	73	5.0	4.8	2.8
Science technicians	261	37.5	7.2	5.2
Biological technicians	85	59.7	6.1	3.8
Chemical technicians	74	26.0	7.1	3.9
Technicians, except health, engineering, and science	1,361	39.9	8.4	4.0
Airplane pilots and navigators	101	3.9	5.5	2.4
Computer programmers	578	31.5	6.7	3.5
Legal assistants	254	79.6	8.6	4.9
Sales occupations	14,245	48.1	6.7	5.9
Supervisors and proprietors	4,016	36.4	4.4	5.3
Sales representatives, finance and business services	2,317	40.5	4.7	3.7
Insurance sales	583	33.3	5.1	3.8
Real estate sales	710	51.4	2.5	4.1
Securities and financial services sales	355	28.1	4.1	2.2
Advertising and related sales	161	50.8	4.5	3.1
Sales occupations, other business services	508	39.0	7.6	4.0
Sales representatives, commodities, except retail	1,538	21.0	2.9	3.9
Sales representatives, mining, manufacturing, and wholesale	1,514	21.3	3.0	4.0
Sales workers, retail and personal services	6,281	64.9	9.7	7.5
Sales workers, motor vehicles and boats	280	7.7	7.2	5.3
Sales workers, apparel	474	79.6	11.1	9.4
Sales workers, shoes	101	59.2	14.1	11.9
Sales workers, furniture and home furnishings	171	44.8	3.9	6.6
Sales workers, radio, television, hi-fi, and appliances	201	27.4	8.5	6.7
Sales workers, hardware and building supplies	250	22.1	1.8	3.8
Sales workers, parts	155	7.0	5.5	8.9
Sales workers, other commodities	1,428	70.2	7.1	5.7
Sales counter clerks	195	63.8	8.2	8.1
Cashiers	2,581	78.4	13.2	8.7
Street and door-to-door sales workers	319	69.9	7.3	7.6
News vendors	125	34.6	5.4	6.1
Sales-related occupations	93	60.5	5.3	6.1
Demonstrators, promoters, and models	58	72.2	7.2	8.4
Administrative support occupations, including clerical	18,555	78.8	11.2	6.8
Supervisors, administrative support	778	58.4	11.9	6.8
Supervisors, general office	484	66.1	13.5	5.7
Supervisors, financial records processing	98	72.2	5.0	4.2
Supervisors, distribution, scheduling, and adjusting clerks	165	30.6	12.1	12.0
Computer equipment operators	603	61.9	13.8	6.2
Computer operators	597	61.9	13.7	6.1
Secretaries, stenographers, and typists	4,174	98.2	8.9	5.9
Secretaries	3,586	98.9	7.7	5.8
Stenographers	94	93.6	2.9	5.1
Typists	494	94.3	18.8	7.4
Information clerks	1,678	88.8	9.3	7.9

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1993			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Interviewers	149	80.2	10.3	8.5
Hotel clerks	102	74.2	8.5	10.3
Transportation ticket and reservation agents	252	73.2	8.3	8.0
Receptionists	899	97.2	8.6	7.6
Records processing, except financial	908	79.1	14.9	6.6
Order clerks	212	78.1	17.1	6.5
Personnel clerks, except payroll and timekeeping	63	89.2	15.2	3.9
Library clerks	146	75.9	11.6	3.4
File clerks	288	79.6	15.0	10.4
Records clerks	184	77.9	14.3	4.8
Financial records processing	2,272	89.9	5.4	5.3
Bookkeepers, accounting, and auditing clerks	1,806	90.9	4.5	4.9
Payroll and timekeeping clerks	173	88.3	6.6	5.2
Billing clerks	160	88.5	8.4	6.6
Cost and rate clerks	60	72.9	10.9	9.7
Billing, posting, and calculating machine operators	72	86.1	12.0	8.2
Duplicating, mail and other office machine operators	63	47.8	19.2	9.2
Communications equipment operators	208	86.1	20.9	8.0
Telephone operators	197	86.9	21.0	7.9
Mail and message distributing	953	37.6	19.0	7.4
Postal clerks, except mail carriers	297	44.8	26.8	6.8
Mail carriers, postal service	333	28.4	12.6	7.0
Mail clerks, except postal service	166	51.5	22.5	8.8
Messengers	157	29.1	14.2	7.9
Material recording, scheduling, and distributing clerks	1,852	44.0	14.0	8.3
Dispatchers	221	52.7	11.8	5.7
Production coordinators	196	50.2	7.8	4.7
Traffic, shipping, and receiving clerks	570	30.9	15.1	11.9
Stock and inventory clerks	489	43.4	14.5	6.8
Weighers, measurers, and checkers and samplers	67	45.6	15.9	10.4
Expediters	227	67.0	13.9	7.1
Adjusters and investigators	1,372	74.0	12.2	6.1
Insurance adjusters, examiners, and investigators	372	71.5	12.1	4.0
Investigators and adjusters, except insurance	748	76.2	11.2	6.3
Eligibility clerks, social welfare	86	84.7	16.2	6.0
Bill and account collectors	166	64.3	14.8	9.5
Miscellaneous administrative support	3,694	82.3	12.4	7.8
General office clerks	731	82.0	11.4	9.6
Bank tellers	446	88.4	6.9	6.2
Data-entry keyers	623	82.4	16.4	8.3
Statistical clerks	50	78.4	15.4	3.3
Teachers' aides	508	92.2	15.7	12.3
Service occupations	16,522	59.5	17.3	11.2
Private household	912	95.1	17.1	21.6
Child care workers	345	97.2	9.0	15.0
Cleaners and servants	534	94.0	21.6	25.7
Protective service	2,152	17.2	17.4	6.6
Supervisors	185	7.8	12.2	4.8
Police and detectives	96	10.3	6.6	6.1
Guards	53	8.6	23.1	5.0
Firefighting and fire prevention occupations	208	3.7	7.6	4.5
Firefighting occupations	188	3.3	7.5	5.0
Police and detectives	923	16.0	18.0	5.4
Police and detectives, public service	511	12.0	14.5	5.9
Sheriffs, bailiffs, and other law enforcement officers	117	19.5	13.4	4.6
Correctional institution officers	295	21.6	25.8	5.0
Guards	836	23.9	20.4	8.8
Guards and police, except public services	711	17.2	22.6	9.5
Service occupations, except private household and protective service	13,457	63.9	17.3	11.2
Food preparation and service occupations	5,691	58.4	12.8	11.7
Supervisors, food preparation and service	337	68.0	10.4	6.9
Bartenders	321	53.3	3.8	3.1
Waiters and waitresses	1,414	80.0	4.6	7.5
Cooks	1,992	44.2	19.0	13.9
Food counter, fountain and related occupations	367	69.2	12.6	8.1
Kitchen workers, food preparation	260	75.3	15.0	10.8
Waiters' and waitresses' assistants	368	43.7	11.4	18.1
Miscellaneous food preparation	632	47.4	17.4	19.6

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1993			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Health service occupations	2,213	87.4	27.3	7.7
Dental assistants	181	97.8	3.4	10.4
Health aides, except nursing	312	78.9	22.2	4.7
Nursing aides, orderlies, and attendants	1,719	87.9	30.7	7.9
Cleaning and building service occupations	2,959	42.2	22.4	16.2
Supervisors	149	40.7	18.4	11.0
Maids and housemen	661	81.7	27.3	18.6
Janitors and cleaners	2,086	30.7	21.5	16.1
Personal service occupations	2,594	80.7	12.9	7.6
Supervisors	115	69.0	9.4	4.2
Barbers	86	22.3	27.5	8.5
Hairdressers and cosmetologists	758	90.1	9.4	6.3
Attendants, amusement and recreation facilities	161	39.4	7.4	5.8
Public transportation attendants	104	80.4	8.8	7.4
Welfare service aides	73	82.1	21.2	16.6
Family child care providers	302	99.0	9.4	10.2
Early childhood teachers' assistants	418	96.6	15.7	6.4
Precision production, craft, and repair	13,326	8.6	7.4	9.2
Mechanics and repairers	4,416	3.5	7.3	7.9
Supervisors	220	7.5	6.7	3.7
Mechanics and repairers, except supervisors	4,196	3.3	7.3	8.1
Vehicle and mobile equipment mechanics and repairers	1,800	1.0	6.1	9.9
Automobile mechanics	854	.6	6.4	10.8
Bus, truck, and stationary engine mechanics	344	.3	7.5	7.1
Aircraft engine mechanics	139	4.1	5.1	11.5
Small engine repairers	70	2.1	1.0	4.4
Automobile body and related repairers	192	.7	5.4	15.6
Heavy equipment mechanics	153	.6	6.4	4.7
Industrial machinery repairers	548	2.6	8.2	6.9
Electrical and electronic equipment repairers	655	9.5	9.0	5.8
Electronic repairers, communications and industrial equipment	165	7.8	9.6	8.8
Data processing equipment repairers	152	10.7	10.2	5.0
Telephone installers and repairers	188	12.5	9.9	3.4
Heating, air conditioning, and refrigeration mechanics	262	1.0	4.3	7.7
Miscellaneous mechanics and repairers	906	4.5	8.8	7.0
Office machine repairers	59	3.7	13.5	6.5
Construction trades	5,004	1.9	6.5	9.5
Supervisors	736	2.0	3.9	4.9
Construction trades, except supervisors	4,269	1.9	7.0	10.2
Brickmasons and stonemasons	186	.6	15.2	10.7
Tile setters, hard and soft	56	2.6	3.2	21.9
Carpet installers	94	2.1	6.9	15.6
Carpenters	1,276	.9	4.5	7.7
Drywall installers	135	1.3	7.3	16.9
Electricians	666	1.1	6.1	5.1
Electrical power installers and repairers	110	.9	7.8	4.7
Painters, construction and maintenance	548	5.2	7.5	15.6
Plumbers, pipefitters, and steamfitters	435	.7	8.1	8.2
Concrete and terrazzo finishers	75	.0	14.5	25.3
Insulation workers	60	7.6	14.8	6.8
Roofers	222	1.2	9.0	18.9
Extractive occupations	148	1.8	4.6	7.9
Precision production occupations	3,758	23.6	8.8	10.5
Supervisors	1,227	16.9	8.0	8.6
Precision metalworking	834	7.5	6.1	8.1
Tool and die makers	133	1.7	3.1	3.1
Machinists	441	4.0	7.2	7.7
Sheet-metal workers	106	7.1	7.4	9.3
Precision woodworking occupations	127	11.7	8.5	10.3
Cabinet makers and bench carpenters	85	7.8	6.2	9.9
Precision textile, apparel, and furnishings machine workers	219	55.8	9.0	18.3
Dressmakers	97	94.1	8.0	9.0
Upholsterers	63	16.5	9.7	23.4
Precision workers, assorted materials	505	56.6	11.9	13.5
Optical goods workers	60	51.5	7.2	13.1
Dental laboratory and medical appliance technicians	51	33.1	3.9	14.7
Electrical and electronic equipment assemblers	315	67.5	14.6	14.9
Precision food production occupations	442	33.2	12.3	18.4

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1993			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Butchers and meat cutters	269	21.3	14.1	21.2
Bakers	119	45.9	8.9	11.8
Precision inspectors, testers, and related workers	136	26.2	8.8	7.0
Inspectors, testers, and graders	127	25.6	9.1	7.2
Plant and system operators	267	4.9	9.0	3.6
Water and sewage treatment plant operators	57	7.6	6.2	1.0
Stationary engineers	124	2.9	9.8	3.7
Operators, fabricators, and laborers	17,038	24.5	14.9	12.1
Machine operators, assemblers, and inspectors	7,415	38.7	14.7	13.8
Machine operators and tenders, except precision	4,757	38.8	15.5	14.5
Metalworking and plastic working machine operators	381	15.6	9.6	11.1
Punching and stamping press machine operators	99	27.3	12.9	10.4
Grinding, abrading, buffing, and polishing machine operators	124	12.1	7.9	16.1
Metal and plastic processing machine operators	149	21.6	11.2	12.9
Molding and casting machine operators	93	28.6	11.5	10.3
Woodworking machine operators	136	12.9	13.2	7.0
Sawing machine operators	85	10.6	16.4	6.6
Printing machine operators	403	25.8	6.0	7.5
Printing press operators	283	16.4	6.9	8.6
Typesetters and compositors	54	66.4	1.5	3.0
Textile, apparel, and furnishings machine operators	1,159	74.4	20.8	19.9
Winding and twisting machine operators	51	76.7	37.6	3.4
Textile sewing machine operators	616	85.8	18.5	24.1
Pressing machine operators	147	62.7	24.0	20.4
Laundering and dry cleaning machine operators	216	58.8	21.7	17.7
Machine operators, assorted materials	2,506	30.4	15.8	14.3
Packaging and filling machine operators	343	58.3	18.8	21.7
Mixing and blending machine operators	113	11.0	19.5	13.1
Separating, filtering, and clarifying machine operators	54	12.7	8.6	4.3
Painting and paint spraying machine operators	203	12.0	12.6	14.7
Furnace, kiln, and oven operators, except food	81	5.2	17.8	5.5
Slicing and cutting machine operators	195	28.1	12.7	19.7
Photographic process machine operators	80	51.7	8.7	8.9
Fabricators, assemblers, and hand working occupations	1,882	32.7	12.7	12.0
Welders and cutters	539	3.5	10.1	10.6
Assemblers	1,129	43.7	14.9	12.2
Production inspectors, testers, samplers, and weighers	777	52.4	15.0	13.7
Production inspectors, checkers, and examiners	560	54.4	14.8	11.1
Graders and sorters, except agricultural	156	53.3	15.7	23.0
Transportation and material moving occupations	5,004	9.3	14.0	8.6
Motor vehicle operators	3,825	10.8	14.2	8.9
Supervisors	84	18.3	8.4	7.4
Truck drivers	2,786	4.5	12.3	8.8
Drivers--sales workers	178	8.6	6.2	6.2
Bus drivers	506	45.8	23.1	8.0
Taxicab drivers and chauffeurs	225	9.4	23.6	12.3
Transportation occupations, except motor vehicles	170	4.1	10.2	3.1
Rail transportation	108	4.0	11.7	1.5
Water transportation	62	4.2	7.6	5.7
Material moving equipment operators	1,009	4.5	13.9	8.5
Operating engineers	193	1.0	7.1	4.9
Crane and tower operators	85	1.1	10.6	5.6
Excavating and loading machine operators	111	.4	5.8	7.1
Grader, dozer, and scraper operators	84	1.8	9.3	2.6
Industrial truck and tractor equipment operators	432	7.3	20.9	12.0
Handlers, equipment cleaners, helpers, and laborers	4,619	18.3	16.1	12.9
Helpers, construction and extractive occupations	116	2.0	9.6	18.6
Helpers, construction trades	106	1.9	9.9	19.9
Construction laborers	658	3.5	14.9	16.7
Freight, stock, and material handlers	1,850	20.7	16.7	9.9
Stock handlers and baggers	1,050	27.0	13.2	9.5
Machine feeders and offbearers	78	38.1	22.3	4.4
Garage and service station related occupations	198	6.5	13.4	7.7
Vehicle washers and equipment cleaners	256	13.0	19.1	20.8
Hand packers and packagers	321	58.3	15.4	13.9
Laborers, except construction	1,127	17.0	16.7	13.7

See footnotes at end of table.

22. Employed civilians by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1993			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Farming, forestry, and fishing	3,326	15.4	6.3	16.0
Farm operators and managers	1,170	14.3	0.9	2.4
Farmers	1,032	14.4	0.9	1.9
Farm managers	138	13.1	.7	6.7
Other agricultural and related occupations	1,963	17.0	9.5	24.8
Farm occupations, except managerial	871	20.6	6.8	29.4
Farm workers	801	20.0	7.0	28.5
Related agricultural occupations	1,092	14.2	11.6	21.1
Supervisors	71	2.5	8.5	17.7
Groundskeepers and gardeners, except farm	863	5.6	12.8	21.3
Animal caretakers, except farm	107	65.5	6.0	3.7
Forestry and logging occupations	132	5.9	10.4	11.8
Timber cutting and logging occupations	93	1.2	13.7	4.7
Fishers, hunters, and trappers	61	4.4	1.7	4.8
Fishers	51	4.3	1.5	5.8

NOTE: Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1994			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	123,060	46.0	10.4	8.8
Managerial and professional specialty	33,847	48.1	7.1	4.5
Executive, administrative, and managerial	16,312	43.0	6.8	4.9
Officials and administrators, public administration	598	46.1	12.7	4.2
Administrators, protective services	51	27.8	4.6	5.9
Financial managers	608	49.1	7.0	5.7
Personnel and labor relations managers	111	61.6	8.9	6.1
Purchasing managers	130	37.0	1.7	4.3
Managers, marketing, advertising, and public relations	564	34.3	2.6	4.3
Administrators, education and related fields	701	62.0	12.2	4.7
Managers, medicine and health	614	79.7	5.4	4.0
Postmasters and mail superintendents	52	63.6	8.5	2.0
Managers, food serving and lodging establishments	1,255	45.4	8.0	7.9
Managers, properties and real estate	479	50.6	6.3	8.7
Funeral directors	51	16.1	3.7	1.7
Management-related occupations	4,269	53.7	8.8	5.0
Accountants and auditors	1,483	51.8	9.0	4.4
Underwriters	88	67.4	3.3	5.1
Other financial officers	715	48.4	7.4	4.5
Management analysts	283	34.1	5.5	6.2
Personnel, training, and labor relations specialists	396	64.9	12.3	6.1
Buyers, wholesale and retail trade, except farm products	233	55.1	3.4	4.6
Construction inspectors	64	7.3	6.1	.9
Inspectors and compliance officers, except construction	226	27.4	15.4	8.4
Professional specialty	17,536	52.8	7.4	4.0
Engineers, architects, and surveyors	2,030	8.9	3.7	3.3
Architects	141	16.8	1.4	3.7
Engineers	1,866	8.3	3.7	3.3
Aerospace engineers	75	14.5	.9	4.5
Chemical engineers	56	7.3	1.8	1.3
Civil engineers	240	8.2	2.8	2.9
Electrical and electronic engineers	556	6.7	4.2	2.2
Industrial engineers	245	14.7	5.9	3.9
Mechanical engineers	341	5.1	3.1	4.9
Mathematical and computer scientists	1,186	33.6	6.5	3.7
Computer systems analysts and scientists	916	31.4	7.2	3.5
Operations and systems researchers and analysts	222	41.4	3.9	4.9
Natural scientists	535	31.0	3.8	1.6
Chemists, except biochemists	144	36.8	4.5	1.4
Geologists and geodesists	57	13.2	.9	.2
Biological and life scientists	120	36.5	4.5	.6
Medical scientists	62	47.4	1.1	.9
Health diagnosing occupations	932	21.5	3.7	4.4
Physicians	628	22.3	4.2	5.2
Dentists	148	13.3	3.7	4.5
Veterinarians	61	34.7	.9	-
Health assessment and treating occupations	2,708	86.2	8.8	3.4
Registered nurses	1,956	93.8	9.3	2.9
Pharmacists	182	38.3	2.6	4.1
Dietitians	86	92.0	14.3	2.1
Therapists	430	74.3	8.3	4.5
Respiratory therapists	98	57.8	11.1	8.2
Occupational therapists	50	87.2	9.1	.5
Physical therapists	106	66.2	3.7	3.7
Speech therapists	92	94.6	3.3	1.6
Physicians' assistants	53	54.3	5.5	7.8
Teachers, college and university	838	42.5	5.0	2.9
Teachers, except college and university	4,330	74.9	8.9	4.3
Prekindergarten and kindergarten	496	98.1	11.0	5.4
Elementary school	1,634	85.6	10.2	4.2
Secondary school	1,197	55.6	7.6	4.0
Special education	308	83.7	6.9	3.8
Counselors, educational and vocational	237	68.1	13.7	8.1
Librarians, archivists, and curators	219	81.6	9.5	3.7
Librarians	196	84.1	10.5	3.7
Social scientists and urban planners	440	53.6	7.0	4.1
Economists	106	47.4	3.8	3.3
Psychologists	280	58.6	8.3	4.9

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1994			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Social, recreation, and religious workers	1,209	51.4	17.3	5.7
Social workers	667	69.3	24.0	7.0
Recreation workers	105	70.5	14.4	3.8
Clergy	371	11.1	8.7	3.2
Lawyers and judges	861	24.8	3.3	3.0
Lawyers	821	24.6	3.3	3.1
Writers, artists, entertainers, and athletes	2,011	47.8	5.3	5.3
Authors	112	53.3	2.8	2.9
Technical writers	72	57.8	4.0	.2
Designers	548	55.3	3.4	5.8
Musicians and composers	164	31.8	10.2	6.1
Actors and directors	86	41.2	3.8	3.2
Painters, sculptors, craft artists, and artist printmakers	225	50.5	4.6	5.2
Photographers	148	28.4	4.6	5.1
Editors and reporters	267	48.8	5.4	3.6
Public relations specialists	142	63.1	5.0	3.9
Athletes	81	21.8	10.5	2.8
Technical, sales, and administrative support	37,306	64.3	9.7	7.1
Technicians and related support	3,869	52.0	9.7	5.3
Health technologists and technicians	1,590	81.6	13.9	5.3
Clinical laboratory technologists and technicians	341	77.2	13.9	4.4
Dental hygienists	97	100.0	.2	2.9
Radiologic technicians	154	74.1	8.1	7.6
Licensed practical nurses	397	95.1	18.7	4.3
Engineering and related technologists and technicians	916	19.5	7.4	6.2
Electrical and electronic technicians	316	15.1	9.9	5.9
Drafting occupations	239	19.8	4.1	4.5
Surveying and mapping technicians	68	7.8	1.5	3.8
Science technicians	266	36.7	9.5	4.3
Biological technicians	89	52.9	10.4	1.2
Chemical technicians	77	25.5	8.8	6.6
Technicians, except health, engineering, and science	1,098	40.0	5.7	4.8
Airplane pilots and navigators	104	2.6	1.5	.4
Computer programmers	549	29.3	6.0	3.5
Legal assistants	262	79.9	5.4	9.4
Sales occupations	14,817	49.1	7.1	6.8
Supervisors and proprietors	4,443	37.5	5.3	5.8
Sales representatives, finance and business services	2,361	40.0	4.8	4.1
Insurance sales	601	35.1	5.9	4.1
Real estate sales	708	48.4	2.6	3.9
Securities and financial services sales	391	29.9	4.2	2.9
Advertising and related sales	147	51.6	4.5	2.6
Sales occupations, other business services	515	38.4	7.0	5.8
Sales representatives, commodities, except retail	1,476	23.3	2.8	4.2
Sales representatives, mining, manufacturing, and wholesale	1,445	23.5	2.9	4.2
Sales workers, retail and personal services	6,440	66.1	10.3	9.1
Sales workers, motor vehicles and boats	284	6.4	6.3	7.9
Sales workers, apparel	442	80.8	10.0	11.1
Sales workers, shoes	110	67.9	21.3	10.2
Sales workers, furniture and home furnishings	159	49.6	4.7	5.7
Sales workers, radio, television, hi-fi, and appliances	228	25.0	7.5	8.1
Sales workers, hardware and building supplies	253	19.8	4.8	5.4
Sales workers, parts	167	8.9	4.0	10.9
Sales workers, other commodities	1,379	70.8	7.2	7.8
Sales counter clerks	209	65.4	8.6	6.2
Cashiers	2,745	79.8	14.2	10.1
Street and door-to-door sales workers	335	74.4	6.1	10.1
News vendors	130	38.8	3.1	6.7
Sales-related occupations	96	67.3	3.6	6.4
Demonstrators, promoters, and models	63	82.1	5.5	9.3
Administrative support occupations, including clerical	18,620	78.9	11.8	7.6
Supervisors, administrative support	753	59.7	13.6	6.9
Supervisors, general office	465	66.4	13.3	6.8
Supervisors, financial records processing	97	80.4	8.7	.9
Supervisors, distribution, scheduling, and adjusting clerks	167	32.1	16.2	10.8
Computer equipment operators	550	60.7	14.1	6.9
Computer operators	546	60.6	14.2	6.9
Secretaries, stenographers, and typists	4,163	98.0	9.2	6.7

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1994			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Secretaries	3,397	98.9	8.4	6.2
Stenographers	105	95.7	1.0	4.4
Typists	661	94.1	14.6	9.6
Information clerks	1,755	88.4	10.6	9.2
Interviewers	158	81.7	13.1	11.9
Hotel clerks	107	68.6	14.7	6.0
Transportation ticket and reservation agents	260	72.8	6.9	6.9
Receptionists	931	96.4	10.1	10.2
Records processing, except financial	890	78.5	15.6	9.2
Order clerks	202	75.1	18.5	8.5
Personnel clerks, except payroll and timekeeping	66	86.6	17.3	11.9
Library clerks	147	77.7	10.8	5.0
File clerks	280	78.9	16.8	12.7
Records clerks	181	78.0	13.4	6.4
Financial records processing	2,278	91.4	6.0	5.5
Bookkeepers, accounting, and auditing clerks	1,829	91.9	4.9	5.0
Payroll and timekeeping clerks	155	91.7	9.5	4.7
Billing clerks	177	90.0	11.9	8.3
Billing, posting, and calculating machine operators	70	90.7	8.4	8.8
Duplicating, mail and other office machine operators	58	41.5	17.2	9.5
Communications equipment operators	179	86.6	20.8	8.2
Telephone operators	165	88.8	21.7	8.3
Mail and message distributing	982	38.9	18.5	7.9
Postal clerks, except mail carriers	311	44.4	28.2	7.8
Mail carriers, postal service	354	34.0	11.6	8.5
Mail clerks, except postal service	170	50.5	24.2	5.9
Messengers	147	25.7	8.1	8.9
Material recording, scheduling, and distributing clerks	1,798	43.6	12.6	9.8
Dispatchers	226	51.4	7.6	6.6
Production coordinators	200	56.0	8.0	8.2
Traffic, shipping, and receiving clerks	571	28.7	14.7	12.9
Stock and inventory clerks	459	44.1	13.5	9.9
Meter readers	54	12.0	19.3	3.9
Weighers, measurers, and checkers and samplers	71	50.9	15.8	5.2
Expediters	196	65.9	11.4	7.5
Adjusters and investigators	1,414	74.5	13.9	6.8
Insurance adjusters, examiners, and investigators	364	74.6	13.3	4.1
Investigators and adjusters, except insurance	788	74.5	12.3	6.0
Eligibility clerks, social welfare	109	80.6	18.7	16.8
Bill and account collectors	153	69.7	20.6	9.9
Miscellaneous administrative support	3,799	81.6	13.9	8.4
General office clerks	696	80.2	13.0	8.1
Bank tellers	441	90.4	10.4	9.2
Data-entry keyers	627	83.8	18.3	7.2
Statistical clerks	75	81.6	23.4	7.9
Teachers' aides	582	90.3	14.3	14.6
Service occupations	16,912	59.6	17.1	12.6
Private household	817	96.3	16.7	27.2
Child care workers	286	97.3	8.4	20.5
Cleaners and servants	500	95.8	20.0	31.0
Protective service	2,249	16.7	18.1	7.4
Supervisors	219	12.0	12.4	4.5
Supervisors, firefighting and fire prevention	50	2.5	3.2	.8
Police and detectives	109	12.2	12.3	4.7
Guards	60	18.8	19.7	3.4
Firefighting and fire prevention occupations	210	2.1	9.7	5.5
Firefighting occupations	195	2.1	9.1	5.4
Police and detectives	968	15.6	17.8	5.6
Police and detectives, public service	532	13.2	13.8	6.2
Sheriffs, bailiffs, and other law enforcement officers	130	16.4	12.2	5.6
Correctional institution officers	305	19.3	27.1	4.5
Guards	851	22.9	22.0	10.8
Guards and police, except public services	717	15.8	24.1	11.4
Service occupations, except private household and protective service	13,847	64.3	16.9	12.6
Food preparation and service occupations	5,960	57.9	12.4	13.4
Supervisors, food preparation and service	393	66.7	10.7	10.0
Bartenders	322	55.1	2.9	4.4
Waiters and waitresses	1,446	78.6	5.5	7.6
Cooks	2,071	43.3	17.9	16.8

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1994			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Food counter, fountain and related occupations	351	70.2	11.2	8.9
Kitchen workers, food preparation	265	73.7	9.7	9.8
Waiters' and waitresses' assistants	433	47.6	12.8	21.8
Miscellaneous food preparation	679	48.6	16.9	19.7
Health service occupations	2,157	87.9	26.4	8.9
Dental assistants	188	96.6	2.7	10.2
Health aides, except nursing	333	78.1	25.6	7.8
Nursing aides, orderlies, and attendants	1,636	88.8	29.3	8.9
Cleaning and building service occupations	2,948	45.2	22.4	17.7
Supervisors	160	40.8	23.8	16.8
Maids and housemen	680	83.3	27.9	20.2
Janitors and cleaners	2,048	34.0	20.8	17.1
Pest control occupations	50	5.7	10.2	5.2
Personal service occupations	2,782	80.1	13.6	8.3
Supervisors	127	69.5	7.0	2.2
Barbers	98	21.8	27.6	10.3
Hairdressers and cosmetologists	753	90.6	10.3	8.0
Attendants, amusement and recreation facilities	201	39.0	10.2	6.7
Public transportation attendants	104	81.1	13.9	5.7
Welfare service aides	81	84.8	29.6	15.2
Family child care providers	428	98.7	10.8	9.0
Early childhood teachers' assistants	416	96.4	14.4	7.5
Precision production, craft, and repair	13,489	9.3	7.7	10.4
Mechanics and repairers	4,419	4.5	7.9	8.2
Supervisors	236	9.9	5.3	6.5
Mechanics and repairers, except supervisors	4,183	4.2	8.1	8.3
Vehicle and mobile equipment mechanics and repairers	1,734	1.2	6.6	9.7
Automobile mechanics	864	1.0	6.8	11.4
Bus, truck, and stationary engine mechanics	306	.4	9.1	6.6
Aircraft engine mechanics	129	4.6	6.3	7.0
Small engine repairers	52	-	2.9	6.8
Automobile body and related repairers	186	.4	1.6	12.5
Heavy equipment mechanics	151	1.1	5.1	7.6
Industrial machinery repairers	561	3.2	9.6	7.0
Electrical and electronic equipment repairers	666	12.4	9.8	7.0
Electronic repairers, communications and industrial equipment	160	7.4	11.1	10.3
Data processing equipment repairers	163	18.0	7.6	3.6
Telephone installers and repairers	191	16.8	9.9	7.5
Heating, air conditioning, and refrigeration mechanics	277	.5	5.7	7.3
Miscellaneous mechanics and repairers	923	5.8	9.0	7.7
Office machine repairers	61	2.1	2.4	2.0
Millwrights	80	4.2	2.8	-
Construction trades	5,008	2.2	6.5	11.4
Supervisors	704	1.4	4.6	4.6
Construction trades, except supervisors	4,304	2.3	6.9	12.5
Brickmasons and stonemasons	190	.6	15.0	16.7
Tile setters, hard and soft	56	3.0	3.6	11.1
Carpet installers	114	2.4	4.2	15.1
Carpenters	1,265	1.0	4.6	9.9
Drywall installers	154	1.7	4.6	24.6
Electricians	659	2.1	6.1	6.3
Electrical power installers and repairers	116	1.8	13.1	6.9
Painters, construction and maintenance	543	6.3	7.5	17.7
Plumbers, pipefitters, and steamfitters	508	.7	7.2	12.4
Concrete and terrazzo finishers	75	.3	19.3	19.3
Insulation workers	64	2.5	13.0	15.7
Roofers	180	-	6.3	20.7
Extractive occupations	142	1.0	5.9	8.5
Precision production occupations	3,921	23.9	9.0	11.8
Supervisors	1,254	18.8	8.8	9.8
Precision metalworking	903	6.5	6.0	6.2
Tool and die makers	141	1.5	3.3	.8
Machinists	492	4.4	7.6	6.4
Precious stones and metals workers (jewelers)	56	23.6	.8	22.2
Sheet-metal workers	127	8.3	6.2	4.0
Precision woodworking occupations	132	10.8	7.1	6.6
Cabinet makers and bench carpenters	87	4.4	6.7	5.2
Precision textile, apparel, and furnishings machine workers	214	54.5	8.9	20.4
Dressmakers	82	95.8	6.5	12.4
Upholsterers	61	24.3	7.6	24.6

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1994			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Precision workers, assorted materials	550	55.6	12.7	16.6
Optical goods workers	72	52.3	7.6	9.6
Dental laboratory and medical appliance technicians	61	36.9	4.5	14.9
Electrical and electronic equipment assemblers	339	65.3	15.5	18.9
Precision food production occupations	457	33.9	10.5	24.1
Butchers and meat cutters	266	22.9	12.2	25.2
Bakers	141	43.1	8.2	20.9
Food batchmakers	50	66.3	7.5	27.2
Precision inspectors, testers, and related workers	137	27.3	11.4	8.4
Inspectors, testers, and graders	129	26.6	10.1	8.7
Plant and system operators	273	5.0	10.1	6.8
Water and sewage treatment plant operators	68	3.2	16.6	4.6
Stationary engineers	124	3.5	9.5	6.5
Operators, fabricators, and laborers	17,876	24.3	15.0	13.8
Machine operators, assemblers, and inspectors	7,754	38.1	15.1	14.8
Machine operators and tenders, except precision	5,011	38.5	16.0	15.8
Metalworking and plastic working machine operators	430	15.3	8.8	10.8
Punching and stamping press machine operators	126	25.4	8.3	10.8
Grinding, abrading, buffing, and polishing machine operators	136	14.0	9.2	16.8
Metal and plastic processing machine operators	157	21.8	11.9	12.8
Molding and casting machine operators	91	30.3	9.8	10.4
Woodworking machine operators	134	13.7	7.9	10.5
Sawing machine operators	89	11.7	10.1	11.4
Printing machine operators	436	24.9	10.1	12.0
Printing press operators	311	15.9	11.3	13.6
Textile, apparel, and furnishings machine operators	1,139	74.4	21.8	20.0
Winding and twisting machine operators	58	73.1	40.4	–
Textile sewing machine operators	619	86.0	19.4	24.1
Pressing machine operators	127	62.8	18.7	21.6
Laundering and dry cleaning machine operators	207	59.3	24.6	19.1
Machine operators, assorted materials	2,693	31.5	16.3	16.0
Packaging and filling machine operators	390	58.7	17.4	22.5
Mixing and blending machine operators	122	10.2	19.5	17.8
Separating, filtering, and clarifying machine operators	64	10.0	10.1	10.5
Painting and paint spraying machine operators	197	16.6	14.1	16.1
Furnace, kiln, and oven operators, except food	67	3.3	21.0	2.9
Slicing and cutting machine operators	196	27.4	11.5	25.0
Photographic process machine operators	86	57.1	11.6	13.8
Fabricators, assemblers, and hand working occupations	1,994	31.5	12.4	13.0
Welders and cutters	577	4.4	8.6	11.7
Assemblers	1,202	41.0	15.1	12.9
Production inspectors, testers, samplers, and weighers	749	52.9	16.0	13.1
Production inspectors, checkers, and examiners	520	53.6	15.0	11.1
Production testers	58	35.4	10.6	5.2
Graders and sorters, except agricultural	162	56.8	21.6	21.4
Transportation and material moving occupations	5,136	9.4	14.6	10.0
Motor vehicle operators	3,882	11.0	14.7	10.4
Supervisors	94	14.9	9.5	11.6
Truck drivers	2,815	4.5	12.4	10.7
Drivers--sales workers	164	10.5	7.6	5.7
Bus drivers	511	47.0	25.6	8.8
Taxicab drivers and chauffeurs	241	10.3	22.6	11.7
Transportation occupations, except motor vehicles	176	2.1	12.0	2.3
Rail transportation	108	1.5	12.7	3.1
Water transportation	68	1.7	7.0	–
Material moving equipment operators	1,078	4.7	14.6	9.5
Operating engineers	237	1.7	5.1	5.6
Crane and tower operators	66	1.7	6.8	2.5
Excavating and loading machine operators	95	–	7.0	5.2
Grader, dozer, and scraper operators	88	2.0	4.9	9.2
Industrial truck and tractor equipment operators	483	6.9	23.3	12.2
Handlers, equipment cleaners, helpers, and laborers	4,986	18.1	15.3	16.3
Helpers, construction and extractive occupations	113	3.6	14.2	25.2
Helpers, construction trades	106	3.1	14.7	24.9
Construction laborers	740	3.6	12.4	22.2
Production helpers	67	21.3	11.4	23.6
Freight, stock, and material handlers	2,024	20.1	16.4	12.9
Garbage collectors	50	1.3	28.1	14.6

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1994			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Stock handlers and baggers	1,135	25.9	13.4	13.1
Machine feeders and offbearers	83	35.7	17.4	11.1
Garage and service station related occupations	184	5.2	12.2	9.3
Vehicle washers and equipment cleaners	276	11.8	19.0	20.6
Hand packers and packagers	296	60.9	15.1	23.6
Laborers, except construction	1,240	18.2	15.1	15.4
Farming, forestry, and fishing	3,629	19.3	5.1	17.1
Farm operators and managers	1,453	25.4	.2	2.0
Farmers, except horticultural	1,271	26.7	.2	.8
Horticultural specialty farmers	60	9.2	1.0	8.9
Managers, farms, except horticultural	110	18.8	–	10.1
Other agricultural and related occupations	2,176	15.3	8.3	27.1
Farm occupations, except managerial	821	17.2	6.7	37.5
Farm workers	748	16.6	6.7	37.9
Related agricultural occupations	1,172	15.2	9.5	22.4
Supervisors	125	4.1	4.5	18.0
Groundskeepers and gardeners, except farm	864	5.9	10.6	23.0
Animal caretakers, except farm	118	60.4	5.9	3.6
Graders and sorters, agricultural products	61	73.9	9.6	58.5
Forestry and logging occupations	132	7.0	9.9	11.9
Timber cutting and logging occupations	86	1.0	13.3	4.4
Fishers, hunters, and trappers	52	6.2	1.9	7.4

NOTE: Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown. Data for 1994 are not directly comparable with data for 1993 and earlier years. For additional information, see "Revisions in the Current Population Survey Effective January 1994" in the February 1994 issue of *Employment and Earnings*.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1995			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	124,900	46.1	10.6	8.9
Managerial and professional specialty	35,318	48.0	7.5	4.4
Executive, administrative, and managerial	17,186	42.7	7.2	4.8
Officials and administrators, public administration	618	49.8	13.6	4.7
Administrators, protective services	57	33.2	11.5	5.4
Financial managers	605	50.3	6.3	5.7
Personnel and labor relations managers	125	58.5	15.8	3.4
Purchasing managers	135	41.5	6.6	3.1
Managers, marketing, advertising, and public relations	663	35.7	2.2	3.3
Administrators, education and related fields	701	58.7	11.2	4.7
Managers, medicine and health	653	79.9	9.0	5.1
Postmasters and mail superintendents	56	61.1	7.6	2.9
Managers, food serving and lodging establishments	1,276	43.1	9.2	7.8
Managers, properties and real estate	522	49.8	6.8	7.1
Funeral directors	54	11.6	5.5	1.4
Management-related occupations	4,325	53.8	9.2	5.0
Accountants and auditors	1,526	52.1	8.4	4.4
Underwriters	103	67.9	9.3	3.5
Other financial officers	717	51.1	9.9	5.1
Management analysts	317	31.7	6.3	2.6
Personnel, training, and labor relations specialists	401	65.1	12.8	5.8
Buyers, wholesale and retail trade, except farm products	230	56.3	4.9	9.4
Construction inspectors	69	6.0	4.7	8.2
Inspectors and compliance officers, except construction	234	32.2	13.7	5.1
Professional specialty	18,132	52.9	7.8	4.0
Engineers, architects, and surveyors	2,117	9.4	4.5	3.5
Architects	163	19.8	2.5	5.8
Engineers	1,934	8.4	4.7	3.3
Aerospace engineers	78	5.2	1.5	5.7
Chemical engineers	80	11.2	8.5	1.2
Civil engineers	231	7.2	4.9	2.6
Electrical and electronic engineers	611	8.7	5.8	3.7
Industrial engineers	250	14.9	6.0	4.0
Mechanical engineers	330	4.6	3.8	3.0
Mathematical and computer scientists	1,195	32.0	7.2	2.8
Computer systems analysts and scientists	933	29.5	6.1	2.7
Operations and systems researchers and analysts	217	39.1	10.0	3.4
Natural scientists	519	27.3	3.9	2.6
Chemists, except biochemists	140	31.9	4.6	3.7
Geologists and geodesists	60	15.0	.5	.6
Biological and life scientists	110	31.8	5.2	4.3
Medical scientists	61	41.2	4.1	3.3
Health diagnosing occupations	1,002	22.9	3.9	3.7
Physicians	693	24.4	4.9	4.3
Dentists	155	13.4	1.9	2.6
Veterinarians	59	31.0	.0	-
Health assessment and treating occupations	2,762	85.8	8.6	3.1
Registered nurses	1,977	93.1	8.4	2.6
Pharmacists	170	36.2	4.3	1.8
Dietitians	94	93.2	18.4	7.5
Therapists	466	75.1	9.2	4.6
Respiratory therapists	94	60.1	15.2	5.9
Occupational therapists	52	90.5	4.5	2.4
Physical therapists	130	70.2	2.7	4.4
Speech therapists	91	92.1	3.3	1.4
Physicians' assistants	55	53.2	7.6	5.7
Teachers, college and university	846	45.2	6.2	3.6
Teachers, except college and university	4,507	74.7	9.3	4.4
Prekindergarten and kindergarten	498	98.2	13.9	6.9
Elementary school	1,738	84.1	10.1	4.3
Secondary school	1,232	57.0	7.5	4.1
Special education	311	84.3	9.3	2.1
Counselors, educational and vocational	236	68.3	14.2	7.2
Librarians, archivists, and curators	211	83.2	7.5	2.3
Librarians	195	83.9	7.6	1.3
Social scientists and urban planners	453	54.3	8.6	4.6
Economists	148	50.3	5.0	7.9
Psychologists	260	59.2	10.2	3.4

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1995			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Social, recreation, and religious workers	1,303	52.5	16.8	6.4
Social workers	727	67.9	23.7	7.8
Recreation workers	110	74.7	7.6	4.9
Clergy	356	11.1	9.2	3.6
Lawyers and judges	926	26.2	3.6	3.1
Lawyers	894	26.4	3.6	3.2
Writers, artists, entertainers, and athletes	2,054	49.4	6.2	4.8
Authors	118	54.2	3.2	2.8
Technical writers	53	53.9	3.0	1.4
Designers	556	57.6	4.2	4.3
Musicians and composers	161	37.3	10.0	7.5
Actors and directors	114	38.9	9.8	3.0
Painters, sculptors, craft artists, and artist printmakers	233	50.1	4.2	3.3
Photographers	136	27.1	6.5	4.8
Editors and reporters	273	53.2	4.7	3.5
Public relations specialists	142	57.9	8.3	2.7
Athletes	87	25.3	11.8	6.9
Technical, sales, and administrative support	37,417	64.4	10.2	7.3
Technicians and related support	3,909	51.4	9.7	6.1
Health technologists and technicians	1,648	79.7	12.9	6.6
Clinical laboratory technologists and technicians	374	71.7	13.6	8.5
Dental hygienists	95	99.4	1.0	5.1
Radiologic technicians	154	74.2	6.8	8.3
Licensed practical nurses	399	95.4	19.6	3.7
Engineering and related technologists and technicians	880	17.8	8.0	6.2
Electrical and electronic technicians	334	11.1	10.6	5.8
Drafting occupations	229	18.4	5.1	6.6
Surveying and mapping technicians	62	13.2	8.7	3.1
Science technicians	276	35.5	8.9	7.3
Biological technicians	96	50.0	6.6	6.7
Chemical technicians	84	21.5	10.5	6.3
Technicians, except health, engineering, and science	1,106	39.9	6.3	5.2
Airplane pilots and navigators	114	3.4	1.2	3.9
Computer programmers	553	29.5	6.5	4.8
Legal assistants	285	80.0	6.8	6.9
Sales occupations	15,119	49.5	7.8	6.9
Supervisors and proprietors	4,480	38.9	5.6	5.6
Sales representatives, finance and business services	2,399	42.1	5.5	5.1
Insurance sales	562	37.1	5.8	4.6
Real estate sales	718	50.7	3.4	4.5
Securities and financial services sales	397	31.3	5.7	5.0
Advertising and related sales	151	52.9	4.2	4.7
Sales occupations, other business services	571	41.0	8.0	6.5
Sales representatives, commodities, except retail	1,529	21.2	2.7	4.9
Sales representatives, mining, manufacturing, and wholesale	1,492	21.6	2.8	5.0
Sales workers, retail and personal services	6,613	65.6	11.4	8.9
Sales workers, motor vehicles and boats	316	8.7	6.9	7.5
Sales workers, apparel	439	82.6	11.6	10.9
Sales workers, shoes	126	60.0	18.9	8.4
Sales workers, furniture and home furnishings	170	45.3	6.5	6.0
Sales workers, radio, television, hi-fi, and appliances	234	27.1	7.5	7.1
Sales workers, hardware and building supplies	247	22.6	2.4	7.8
Sales workers, parts	161	8.7	5.3	10.1
Sales workers, other commodities	1,498	70.1	8.8	7.4
Sales counter clerks	210	65.7	10.7	11.3
Cashiers	2,727	79.2	15.8	9.9
Street and door-to-door sales workers	366	73.4	6.3	9.4
News vendors	119	35.8	7.3	5.7
Sales-related occupations	99	75.6	4.5	7.8
Demonstrators, promoters, and models	73	83.1	5.7	7.5
Administrative support occupations, including clerical	18,389	79.5	12.2	7.8
Supervisors, administrative support	712	60.0	14.6	6.3
Supervisors, general office	441	66.4	15.0	5.7
Supervisors, financial records processing	86	77.4	12.1	5.3
Supervisors, distribution, scheduling, and adjusting clerks	161	34.6	16.1	9.3
Computer equipment operators	491	60.4	15.5	8.9
Computer operators	485	60.5	15.7	8.9
Secretaries, stenographers, and typists	4,106	97.8	10.0	6.6

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1995			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Secretaries	3,361	98.5	8.7	6.4
Stenographers	89	95.1	5.8	3.9
Typists	656	94.3	17.7	8.1
Information clerks	1,872	88.0	10.0	8.0
Interviewers	183	82.7	12.4	10.4
Hotel clerks	99	75.2	13.4	7.2
Transportation ticket and reservation agents	310	70.4	11.0	6.5
Receptionists	939	96.5	8.8	8.4
Records processing, except financial	959	79.4	15.4	7.7
Order clerks	251	74.1	16.0	9.2
Personnel clerks, except payroll and timekeeping	60	86.5	12.9	10.1
Library clerks	143	80.8	13.7	3.1
File clerks	317	80.2	17.0	8.6
Records clerks	172	80.2	14.1	6.7
Financial records processing	2,255	92.4	6.1	5.3
Bookkeepers, accounting, and auditing clerks	1,776	92.8	4.9	4.9
Payroll and timekeeping clerks	161	90.9	10.5	4.9
Billing clerks	176	90.4	11.8	8.3
Billing, posting, and calculating machine operators	91	92.2	10.4	6.3
Duplicating, mail and other office machine operators	72	57.9	11.2	9.2
Communications equipment operators	185	87.4	25.6	7.4
Telephone operators	176	88.4	26.0	7.4
Mail and message distributing	1,006	39.8	20.4	8.7
Postal clerks, except mail carriers	301	45.3	29.3	8.5
Mail carriers, postal service	362	31.9	13.8	7.4
Mail clerks, except postal service	187	54.5	26.2	8.9
Messengers	156	29.7	12.0	12.1
Material recording, scheduling, and distributing clerks	1,876	45.2	13.4	10.3
Dispatchers	247	54.1	10.2	5.6
Production coordinators	208	58.5	6.1	7.5
Traffic, shipping, and receiving clerks	639	32.5	16.2	14.0
Stock and inventory clerks	462	45.0	14.2	10.6
Meter readers	49	9.3	14.2	7.3
Weighers, measurers, and checkers and samplers	57	40.9	17.8	6.4
Expediters	194	67.2	9.9	7.5
Adjusters and investigators	1,414	74.9	13.2	7.0
Insurance adjusters, examiners, and investigators	365	73.9	10.1	4.5
Investigators and adjusters, except insurance	809	75.1	13.8	7.0
Eligibility clerks, social welfare	89	81.8	12.9	9.0
Bill and account collectors	151	72.2	17.6	12.0
Miscellaneous administrative support	3,441	83.4	14.1	9.6
General office clerks	694	81.7	14.1	10.5
Bank tellers	443	90.1	11.0	7.6
Data-entry keyers	652	82.9	17.5	8.3
Statistical clerks	94	84.3	24.8	8.5
Teachers' aides	634	90.9	14.9	15.1
Service occupations	16,930	60.0	17.0	13.0
Private household	821	95.5	16.7	24.8
Child care workers	312	96.8	9.6	19.3
Cleaners and servants	487	94.6	20.0	28.0
Protective service	2,237	15.9	18.2	7.4
Supervisors	193	10.9	13.4	5.5
Supervisors, firefighting and fire prevention	38	2.8	6.8	4.4
Police and detectives	102	12.9	7.8	7.1
Guards	53	12.9	28.8	3.2
Firefighting and fire prevention	249	2.7	15.1	5.1
Firefighting	237	2.3	15.3	4.8
Police and detectives	949	13.5	16.9	7.4
Police and detectives, public service	519	10.4	11.2	8.7
Sheriffs, bailiffs, and other law enforcement officers	151	16.3	15.4	4.9
Correctional institution officers	278	17.8	28.2	6.4
Guards	846	23.7	21.6	8.6
Guards and police, except public services	709	16.4	23.4	9.1
Service occupations, except private household and protective service	13,872	65.0	16.8	13.2
Food preparation and service occupations	5,800	58.3	11.6	14.2
Supervisors, food preparation and service	382	68.9	9.9	9.4
Bartenders	287	53.5	2.0	5.9
Waiters and waitresses	1,426	77.7	4.5	9.7
Cooks	2,001	44.5	17.6	18.1

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1995			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Food counter, fountain and related occupations	321	74.8	14.3	9.5
Kitchen workers, food preparation	280	70.7	10.7	10.4
Waiters' and waitresses' assistants	479	46.2	9.9	20.1
Miscellaneous food preparation	624	49.1	14.5	18.1
Health service occupations	2,315	88.2	27.6	8.4
Dental assistants	211	98.5	3.6	12.3
Health aides, except nursing	347	76.0	27.9	6.2
Nursing aides, orderlies, and attendants	1,757	89.4	30.4	8.4
Cleaning and building service occupations	2,946	44.9	21.9	19.0
Supervisors	179	38.5	19.3	19.0
Maids and housemen	634	83.1	29.1	19.4
Janitors and cleaners	2,071	35.0	20.1	19.1
Pest control occupations	57	4.9	13.0	9.9
Personal service occupations	2,810	80.7	13.5	8.8
Supervisors	134	67.2	10.8	4.0
Barbers	87	16.3	29.0	7.0
Hairdressers and cosmetologists	750	92.0	9.9	9.4
Attendants, amusement and recreation facilities	194	37.5	8.4	4.5
Public transportation attendants	94	81.7	16.9	3.1
Welfare service aides	93	85.1	29.4	11.8
Family child care providers	486	97.9	10.1	8.6
Early childhood teachers' assistants	396	95.8	16.5	10.8
Precision production, craft, and repair	13,524	8.9	7.9	10.6
Mechanics and repairers	4,423	3.9	8.3	8.3
Supervisors	250	6.8	5.6	6.1
Mechanics and repairers, except supervisors	4,173	3.8	8.5	8.4
Vehicle and mobile equipment mechanics and repairers	1,710	.7	7.7	9.1
Automobile mechanics	819	.6	7.8	11.2
Bus, truck, and stationary engine mechanics	321	.5	10.3	6.3
Aircraft engine mechanics	121	1.7	10.4	6.7
Small engine repairers	64	–	4.2	3.9
Automobile body and related repairers	181	1.0	5.5	10.5
Heavy equipment mechanics	155	.6	4.6	7.2
Industrial machinery repairers	569	3.0	9.3	6.8
Electrical and electronic equipment repairers	642	9.4	9.3	6.7
Electronic repairers, communications and industrial equipment	172	4.2	9.9	7.5
Data processing equipment repairers	149	15.2	9.4	6.4
Telephone installers and repairers	163	16.0	6.2	6.0
Heating, air conditioning, and refrigeration mechanics	260	.9	5.1	6.9
Miscellaneous mechanics and repairers	972	6.4	9.6	9.6
Office machine repairers	60	7.9	12.8	9.5
Millwrights	83	2.1	5.1	–
Construction trades	5,098	2.3	7.1	11.4
Supervisors	725	2.9	4.1	6.6
Construction trades, except supervisors	4,372	2.3	7.6	12.2
Brickmasons and stonemasons	181	1.4	16.3	13.4
Tile setters, hard and soft	52	2.0	9.9	13.9
Carpet installers	119	1.0	4.2	17.2
Carpenters	1,255	.8	5.7	9.4
Drywall installers	138	1.7	4.3	21.5
Electricians	736	2.0	5.5	6.4
Electrical power installers and repairers	126	3.1	8.1	13.4
Painters, construction and maintenance	509	6.7	8.4	18.9
Plumbers, pipefitters, and steamfitters	502	1.3	7.6	12.0
Concrete and terrazzo finishers	77	.6	26.9	22.6
Insulation workers	62	2.5	12.3	13.1
Roofers	205	–	5.7	20.6
Extractive occupations	136	3.6	2.6	7.8
Precision production occupations	3,867	23.3	8.8	12.3
Supervisors	1,235	17.0	8.2	9.9
Precision metalworking	911	7.6	6.4	7.3
Tool and die makers	143	3.6	1.7	5.7
Machinists	509	5.8	7.6	6.9
Sheet-metal workers	113	7.5	4.2	5.3
Precision woodworking occupations	125	11.5	1.6	10.8
Cabinet makers and bench carpenters	80	5.4	.1	6.0
Precision textile, apparel, and furnishings machine workers	234	55.5	10.3	24.4
Dressmakers	93	98.2	9.6	16.5
Upholsterers	72	21.8	5.9	27.0
Precision workers, assorted materials	540	56.4	12.6	14.1

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1995			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Optical goods workers	68	54.1	5.6	6.2
Dental laboratory and medical appliance technicians	65	41.9	2.5	10.1
Electrical and electronic equipment assemblers	331	66.0	15.8	16.6
Precision food production occupations	416	31.6	12.7	24.8
Butchers and meat cutters	238	21.5	16.2	27.8
Bakers	129	38.5	6.7	21.0
Precision inspectors, testers, and related workers	134	19.4	9.8	12.3
Inspectors, testers, and graders	124	19.7	10.4	12.9
Plant and system operators	272	5.7	7.7	7.1
Water and sewage treatment plant operators	69	3.5	3.7	8.3
Stationary engineers	124	2.2	10.0	5.8
Operators, fabricators, and laborers	18,068	24.3	15.0	14.3
Machine operators, assemblers, and inspectors	7,907	37.3	15.4	15.8
Machine operators and tenders, except precision	5,084	38.1	16.2	17.0
Metalworking and plastic working machine operators	378	14.8	8.9	13.2
Punching and stamping press machine operators	106	21.3	8.2	12.0
Grinding, abrading, buffing, and polishing machine operators	118	12.6	8.5	21.1
Metal and plastic processing machine operators	165	20.1	9.9	16.0
Molding and casting machine operators	104	25.2	12.2	12.1
Woodworking machine operators	126	11.7	9.5	9.8
Sawing machine operators	84	11.6	9.9	9.1
Printing machine operators	431	25.2	11.5	12.2
Printing press operators	315	18.5	12.2	14.5
Textile, apparel, and furnishings machine operators	1,134	73.5	20.3	23.1
Winding and twisting machine operators	77	70.1	34.6	-
Textile sewing machine operators	607	85.7	17.0	26.9
Pressing machine operators	128	65.4	24.9	31.9
Laundering and dry cleaning machine operators	192	57.1	20.1	20.6
Machine operators, assorted materials	2,828	31.3	17.1	16.1
Packaging and filling machine operators	388	55.9	19.2	29.2
Mixing and blending machine operators	104	9.9	20.3	11.6
Separating, filtering, and clarifying machine operators	53	6.9	13.4	9.7
Painting and paint spraying machine operators	186	13.3	12.9	13.1
Furnace, kiln, and oven operators, except food	67	6.7	21.6	4.3
Slicing and cutting machine operators	206	26.6	11.6	18.2
Photographic process machine operators	85	54.8	13.2	8.3
Fabricators, assemblers, and hand working occupations	2,059	29.9	13.1	13.6
Welders and cutters	604	4.4	9.1	13.0
Assemblers	1,255	38.8	16.1	14.0
Production inspectors, testers, samplers, and weighers	764	52.0	16.2	13.7
Production inspectors, checkers, and examiners	541	53.2	15.4	10.0
Production testers	60	33.6	8.9	7.7
Graders and sorters, except agricultural	157	55.6	22.6	28.0
Transportation and material moving occupations	5,171	9.5	14.7	9.9
Motor vehicle operators	3,904	11.0	15.2	10.1
Supervisors	87	17.8	11.4	8.3
Truck drivers	2,861	4.5	12.6	10.4
Drivers--sales workers	158	6.3	6.0	7.3
Bus drivers	526	46.4	27.9	8.0
Taxicab drivers and chauffeurs	213	10.5	22.8	12.3
Transportation occupations, except motor vehicles	170	2.8	13.5	3.5
Rail transportation	105	2.9	17.3	3.8
Water transportation	65	2.5	7.3	-
Material moving equipment operators	1,098	5.1	13.2	10.2
Operating engineers	246	2.4	7.8	9.3
Crane and tower operators	63	2.4	7.6	12.9
Excavating and loading machine operators	96	-	6.1	4.0
Grader, dozer, and scraper operators	74	1.5	4.5	1.4
Industrial truck and tractor equipment operators	500	7.1	19.5	13.3
Handlers, equipment cleaners, helpers, and laborers	4,990	19.1	14.7	16.4
Helpers, construction and extractive occupations	115	4.1	13.9	23.9
Helpers, construction trades	110	4.0	13.8	24.7
Construction laborers	780	3.4	13.6	21.2
Production helpers	63	24.1	18.8	23.8
Freight, stock, and material handlers	1,925	22.1	14.7	13.1
Stock handlers and baggers	1,060	28.2	11.3	11.8
Machine feeders and offbearers	74	46.0	17.1	7.9
Garage and service station related occupations	178	4.9	10.8	13.5

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Occupation	1995			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Vehicle washers and equipment cleaners	284	14.6	18.7	22.7
Hand packers and packagers	265	58.9	15.1	20.1
Laborers, except construction	1,337	20.6	14.8	15.3
Farming, forestry, and fishing	3,642	19.9	4.2	18.1
Farm operators and managers	1,446	25.3	.4	1.9
Farmers, except horticultural	1,223	27.1	.4	1.0
Horticultural specialty farmers	53	13.1	2.6	19.6
Managers, farms, except horticultural	161	15.7	–	3.3
Other agricultural and related occupations	2,010	17.4	6.8	30.8
Farm occupations, except managerial	862	18.6	4.3	39.9
Farm workers	797	18.1	4.3	40.3
Related agricultural occupations	1,148	16.6	8.6	24.0
Supervisors	124	5.0	6.8	17.7
Groundskeepers and gardeners, except farm	832	6.4	9.7	24.1
Animal caretakers, except farm	122	66.5	2.9	5.1
Graders and sorters, agricultural products	68	71.5	8.0	69.2
Forestry and logging occupations	129	3.6	8.6	3.7
Timber cutting and logging occupations	97	1.0	10.6	2.4
Fishers, hunters, and trappers	58	7.3	1.3	9.5

NOTE: Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate categories shown.